MINOR SOURCE OPERATING PERMIT
OFFICE OF AIR QUALITY

Arvin Meritor - QRI
849 Whitaker Road
Plainfield, Indiana 46168

(herein known as the Permittee) is hereby authorized to construct and operate subject to the conditions contained herein, the emission units described in Section A (Source Summary) of this permit.

This permit is issued to the above mentioned company under the provisions of 326 IAC 2-1.1, 326 IAC 2-6.1 and 40 CFR 52.780, with conditions listed on the attached pages.

Operation Permit No.: MSOP 063-11118-00046	
Issued by: Paul Dubenetzky, Branch Chief Office of Air Quality	Issuance Date: October 10, 1999
First Notice Only Change: 063-12519	Pages Affected: 3, 4, 15, 17 and 19a
Issued by: Paul Dubenetzky, Branch Chief Office of Air Quality	Issuance Date: September 5, 2000

First Significant Permit Revision: 063-13938-00046	Pages Affected: 2, 3, 4, 5, 7, 8, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 26, 27, 28
Issued by: Original signed by Paul Dubenetzky, Branch Chief Office of Air Quality	Issuance Date: **August 20, 2001**

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SECTION A SOURCE SUMMARY

This permit is based on information requested by the Indiana Department of Environmental Management (IDEM), Office of Air Quality (OAQ). The information describing the source contained in conditions A.1 through A.3 is descriptive information and does not constitute enforceable conditions. However, the Permittee should be aware that a physical change or a change in the method of operation that may render this descriptive information obsolete or inaccurate may trigger requirements for the Permittee to obtain additional permits or seek modification of this permit pursuant to 326 IAC 2, or change other applicable requirements presented in the permit application.

A.1 General Information [326 IAC 2-5.1-3(c)] [326 IAC 2-6.1-4(a)]

The Permittee owns and operates a stationary aftermarket remanufacturer of heavy duty truck components.

Authorized Individual:	Brian Cavagnini
Source Address:	849 Whitaker Road, Plainfield, Indiana 46168
Mailing Address:	849 Whitaker Road, Plainfield, Indiana 46168
Phone Number:	317-839-9525
SIC Code:	3714
County Location:	Hendricks
County Status:	Attainment for all criteria pollutants
Source Status:	Minor Source, under PSD or Emission Offset Rules;

A.2 Emissions units and Pollution Control Equipment Summary

This stationary source is approved to construct and operate the following emissions units and pollution control devices:

(a) One (1) sandblast wheelabrator, identified as PL-104, with a maximum capacity of one hundred (100) pounds per hour, using a baghouse as control, and exhausting inside the building.

(b) One (1) spinblast wheelabrator, identified as PL-101, with a maximum capacity of twenty-one hundred (2,100) pounds per hour, using a mpf cartridge collector as control, and exhausting inside the building.

(c) One (1) tumblast wheelabrator, identified as PL-100, with a maximum capacity of six hundred sixty (660) pounds per hour, using a baghouse as control, and exhausting inside the building.

(d) One (1) tumblast wheelabrator, identified as PL-118, with a maximum capacity of six hundred and sixty (660) pounds per hour, using a baghouse as control, and exhausting inside the building.

(e) One (1) MIG welding station, identified as PL-119, with a maximum wire consumption of 0.02 pounds per day, and exhausting inside the building.

(f) Degreasing operations consisting of:

(1) Handwipe operations using a maximum of 1,080 gallons of degreasing solvent per year;

(2) Eight (8) cold cleaner degreaser dip tanks (identified as PL-103, PL-111, PL-112, PL-113, PL-114, PL-115, PL-116, and PL-117); and

(3) Two (2) vibratory degreaser tanks (identified as PL-102 and PL-120).

(g) One (1) bake-off oven, identified as PL-110, with a maximum capacity of one-half (0.5) million British thermal units (MMBtu) per hour, exhausting through one (1) stack identified as S-9. The oven is equipped with an integral secondary combustion chamber.

(h) Three (3) tumblast finishing units, identified as PL-123, PL-124, and PL-125, each with a maximum capacity of 660 pounds per hour. Each tumblast unit is equipped with a baghouse to control emissions of particulate matter. The baghouses exhaust inside the building.

(i) One (1) natural gas-fired dryer, identified as PL-121B, with a maximum capacity of 500,000 Btu per hour. This emission unit exhausts at stack PL-121B.

(j) One (1) aqueous washer, identified as PL-122, using only water and detergents and employing two natural gas-fired tube heaters with a maximum combined capacity of 900,000 Btu per hour. This emission unit exhausts at stack PL-122.

(k) One (1) dip coating booth, identified as PL-121A, with a maximum capacity of 750 metal brake shoes per hour, and emissions exhausted through stack PL-121A.

(l) One (1) spray paint booth (identified as PB-1) equipped with two (2) HVLP spray guns, for metal heavy duty truck parts, with a maximum capacity of forty (40) transmission units per hour, dry filters for overspray control and exhausting at stack S-13.

(m) One (1) natural gas-fired Proceco aqueous core washer, identified as PL-106, using only water and detergents, with a maximum heat input capacity of 900,000 Btu per hour. This emission unit exhausts at stack PL-106.

(n) One (1) natural gas-fired Mart aqueous parts washer, identified as PL-105, using only water and detergents, with a maximum heat input capacity of 500,000 Btu per hour. This emission unit exhausts at stack PL-105.

(o) One (1) natural gas-fired Mart aqueous tornado parts washer, identified as PL-107, using only water and detergents, with a maximum heat input capacity of 500,000 Btu per hour. This emission unit exhausts at stack PL-107.

(p) One (1) natural gas-fired Hotsy aqueous parts washer, identified as PL-108, using only water and detergents, with a maximum heat input capacity of 500,000 Btu per hour. This emission unit exhausts at stack PL-108.

(q) One (1) natural gas-fired New Wash aqueous clutch washer, identified as PL-109, using only water and detergents, with a maximum heat input capacity of 500,000 Btu per hour. This emission unit exhausts at stack PL-109.

SECTION B GENERAL CONSTRUCTION CONDITIONS

THIS SECTION OF THE PERMIT IS BEING ISSUED UNDER THE PROVISIONS OF 326 IAC 2-1.1 AND 40 CFR 52.780, WITH CONDITIONS LISTED BELOW.

B.1 Permit No Defense [IC 13]

This permit to construct does not relieve the Permittee of the responsibility to comply with the provisions of the Indiana Environmental Management Law (IC 13-11 through 13-20; 13-22 through 13-25; and 13-30), the Air Pollution Control Law (IC 13-17) and the rules promulgated thereunder, as well as other applicable local, state, and federal requirements.

B.2 Definitions

Terms in this permit shall have the definition assigned to such terms in the referenced regulation. In the absence of definitions in the referenced regulation, any applicable definitions found in IC 13-11, 326 IAC 1-2, and 326 IAC 2-1.1-1 shall prevail.

B.3 Effective Date of the Permit [IC13-15-5-3]

Pursuant to IC 13-15-5-3, this permit becomes effective upon its issuance.

B.4 Revocation of Permits [326 IAC 2-1.1-9(5)]

Pursuant to 326 IAC 2-1.1-9(5)(Revocation of Permits), the Commissioner may revoke this permit if construction is not commenced within eighteen (18) months after receipt of this approval or if construction is suspended for a continuous period of one (1) year or more.

B.5 Modification to Permit [326 IAC 2]

Notwithstanding Condition B.7, all requirements and conditions of this construction permit shall remain in effect unless modified in a manner consistent with procedures established for modifications of construction permits pursuant to 326 IAC 2 (Permit Review Rules).

B.6 Minor Source Operating Permit [326 IAC 2-6.1]

This document shall also become a minor source operating permit pursuant to 326 IAC 2-6.1 when, prior to start of operation, the following requirements are met:

(a) The attached affidavit of construction shall be submitted to the Office of Air Quality (OAQ), Permit Administration & Development Section, verifying that the emissions units were constructed as proposed in the application. The emissions units covered in the New Source Construction Permit may begin operating on the date the affidavit of construction is postmarked or hand delivered to IDEM.

(b) If construction is completed in phases; i.e., the entire construction is not done continuously, a separate affidavit must be submitted for each phase of construction. Any permit conditions associated with operation start up dates such as stack testing for New Source Performance Standards (NSPS) shall be applicable to each individual phase.

(c) The Permittee shall receive an Operation Permit Validation Letter from the Chief of the Permit Administration & Development Section and attach it to this document.

(d) The operation permit will be subject to annual operating permit fees pursuant to 326 IAC 2-1.1-7 (Fees).

(e) Pursuant to 326 IAC 2-6.1-7, the Permittee shall apply for an operation permit renewal at least ninety (90) days prior to the expiration date established in the validation letter. If IDEM, OAQ, upon receiving a timely and complete permit application, fails to issue or deny the permit renewal prior to the expiration date of this permit, this existing permit shall not expire and all terms and conditions shall continue in effect until the renewal

permit has been issued or denied. The operation permit issued shall contain as a minimum the conditions in Section C and Section D of this permit.

B.7 Phase Construction Time Frame

That pursuant to 326 IAC 2-1.1-9(5)(Revocation of Permits), the IDEM may revoke this permit to construct if the:

(a) Construction of the aftermarket remanufacturer heavy duty truck components facility has not begun within eighteen (18) months from the effective date of this permit or if during the construction of the aftermarket remanufacturer heavy duty truck components facility, work is suspended for a continuous period of one (1) year or more.

The OAQ may extend such time upon satisfactory showing that an extension, formally requested by the Permittee is justified.

B.8 BACT Determination for Phase Constructions

That pursuant to 40 CFR 52.21(j)(4), for phase construction projects, the determination of BACT shall be reviewed and modified as appropriate at the latest reasonable time which occurs no later than eighteen (18) months prior to commencement of construction of each independent phase of the project.

B.9 Permit Term [326 IAC 2-6.1-7]

This permit is issued for a fixed term of five (5) years from the original date, as determined in accordance with IC 4-21.5-3-5(f) and IC 13-15-5.3. Subsequent revisions, modifications or amendments of this permit do not affect the expiration.

SECTION C SOURCE OPERATION CONDITIONS

Entire Source

C.1 PSD Minor Source Status [326 IAC 2-2] [40 CFR 52.21]

(a) The total source potential to emit of VOC is less than 250 tons per year. Therefore the requirements of 326 IAC 2-2 (Prevention of Significant Deterioration) and 40 CFR 52.21 will not apply.

(b) Any change or modification which may increase potential to emit to 250 tons per year from this source, shall cause this source to be considered a major source under PSD, 326 IAC 2-2 and 40 CFR 52.21, and shall require approval from IDEM, OAQ prior to making the change.

C.2 Preventive Maintenance Plan [326 IAC 1-6-3]

(a) If required by specific condition(s) in Section D of this permit, the Permittee shall prepare and maintain Preventive Maintenance Plans (PMP) after including the following information on each emissions unit:

(1) Identification of the individual(s) responsible for inspecting, maintaining, and repairing emission control devices;

(2) A description of the items or conditions that will be inspected and the inspection schedule for said items or conditions;

(3) Identification and quantification of the replacement parts that will be maintained in inventory for quick replacement.

(b) The Permittee shall implement the Preventive Maintenance Plans as necessary to ensure that lack of proper maintenance does not cause or contribute to a violation of any limitation on emissions or potential to emit.

(c) PMP's shall be submitted to IDEM, OAQ, upon request and shall be subject to review and approval by IDEM, OAQ. IDEM, OAQ may require the Permittee to revise its Preventive Maintenance Plan whenever lack of proper Maintenance causes or contributes to any violation.

C.3 Permit Revision [326 IAC 2-5.1-3(e)(3)] [326 IAC 2-6.1-6]

(a) The Permittee must comply with the requirements of [326 IAC 2-6.1-6] whenever the Permittee seeks to amend or modify this permit.

(b) Any application requesting an amendment or modification of this permit shall be submitted to:

Indiana Department of Environmental Management
Permits Branch, Office of Air Quality
100 North Senate Avenue, P.O. Box 6015
Indianapolis, Indiana 46206-6015

Any such application should be certified by the "authorized individual" as defined by 326 IAC 2-1.1-1.

(c) The Permittee shall notify the OAQ within thirty (30) calendar days of implementing a notice-only change. [326 IAC 2-6.1-6(d)]

C.4 Inspection and Entry [326 IAC 2-5.1-3(e)(4)(B)] [326 IAC 2-6.1-5(a)(4)]

Upon presentation of proper identification cards, credentials, and other documents as may be required by law, the Permittee shall allow IDEM, OAQ, U.S. EPA, or an authorized representative to perform the following:

(a) Enter upon the Permittee's premises where a permitted source is located, or emissions related activity is conducted, or where records must be kept under the conditions of this permit;

(b) Have access to and copy, at reasonable times, any records that must be kept under this title or the conditions of this permit or any operating permit revisions;

(c) Inspect, at reasonable times, any processes, emissions units (including monitoring and air pollution control equipment), practices, or operations regulated or required under this permit or any operating permit revisions;

(d) Sample or monitor, at reasonable times, substances or parameters for the purpose of assuring compliance with this permit or applicable requirements; and

(e) Utilize any photographic, recording, testing, monitoring, or other equipment for the purpose of assuring compliance with this permit or applicable requirements.

(1) The Permittee may assert a claim that, in the opinion of the Permittee, information removed or about to be removed from the source by IDEM, OAQ, or an authorized representative, contains information that is confidential under IC 5-14-3-4(a). The claim shall be made in writing before or at the time the information is removed from the source. In the event that a claim of confidentiality is so asserted, neither IDEM, OAQ, nor an authorized representative, may disclose the information unless and until IDEM, OAQ, makes a determination under 326 IAC 17-1-7 through 326 IAC 17-1-9 that the information is not entitled to confidential treatment and that determination becomes final. [IC 5-14-3-4; IC 13-14-11-3; 326 IAC 17-1-7 through 326 IAC 17-1-9]

(2) The Permittee, and IDEM, OAQ, acknowledge that the federal law applies to claims of confidentiality made by the Permittee with regard to information removed or about to be removed from the source by U.S. EPA. [40 CFR Part 2, Subpart B]

C.5 Transfer of Ownership or Operation [326 IAC 2-6.1-6(d)(3)]

Pursuant to [326 IAC 2-6.1-6(d)(3)] :

(a) In the event that ownership of this source is changed, the Permittee shall notify IDEM, OAQ, Permits Branch, within thirty (30) days of the change.

(b) The written notification shall be sufficient to transfer the permit to the new owner by an notice-only change pursuant to 326 IAC 2-6.1-6(d)(3).

(c) IDEM, OAQ, shall issue a revised permit.

The notification which shall be submitted by the Permittee does require the certification by the “authorized individual” as defined by 326 IAC 2-1.1-1.

C.6 Permit Revocation [326 IAC 2-1-9]

Pursuant to 326 IAC 2-1-9(a)(Revocation of Permits), this permit to construct and operate may be revoked for any of the following causes:

(a) Violation of any conditions of this permit.

(b) Failure to disclose all the relevant facts, or misrepresentation in obtaining this permit.

(c) Changes in regulatory requirements that mandate either a temporary or permanent reduction of discharge of contaminants. However, the amendment of appropriate sections of this permit shall not require revocation of this permit.

(d) Noncompliance with orders issued pursuant to 326 IAC 1-5 (Episode Alert Levels) to reduce emissions during an air pollution episode.

(e) For any cause which establishes in the judgment of IDEM, the fact that continuance of this permit is not consistent with purposes of this article.

C.7 Opacity [326 IAC 5-1]

Pursuant to 326 IAC 5-1-2 (Opacity Limitations), except as provided in 326 IAC 5-1-3 (Temporary Exemptions), opacity shall meet the following, unless otherwise stated in this permit:

(a) Opacity shall not exceed an average of forty percent (40%) in any one (1) six (6) minute averaging period as determined in 326 IAC 5-1-4.

(b) Opacity shall not exceed sixty percent (60%) for more than a cumulative total of fifteen (15) minutes (sixty (60) readings) as measured according to 40 CFR 60, Appendix A, Method 9 or fifteen (15) one (1) minute nonoverlapping integrated averages for a continuous opacity monitor in a six (6) hour period.

C.8 Fugitive Dust Emissions [326 IAC 6-4]

The Permittee shall not allow fugitive dust to escape beyond the property line or boundaries of the property, right-of-way, or easement on which the source is located, in a manner that would violate 326 IAC 6-4 (Fugitive Dust Emissions). 326 IAC 6-4-2(4) is not federally enforceable.

Testing Requirements

C.9 Performance Testing [326 IAC 3-6]

(a) All testing shall be performed according to the provisions of 326 IAC 3-6 (Source Sampling Procedures), except as provided elsewhere in this permit, utilizing methods approved by IDEM, OAQ.

A test protocol, except as provided elsewhere in this permit, shall be submitted to:

Indiana Department of Environmental Management
Compliance Data Section, Office of Air Quality
100 North Senate Avenue, P. O. Box 6015
Indianapolis, Indiana 46206-6015

no later than thirty-five (35) days prior to the intended test date. The Permittee shall submit a notice of the actual test date to the above address so that it is received at least two weeks prior to the test date.

(b) All test reports must be received by IDEM, OAQ within forty-five (45) days after the completion of the testing. An extension may be granted by the Commissioner, if the

source submits to IDEM, OAQ, a reasonable written explanation within five (5) days prior to the end of the initial forty-five (45) day period.

The documentation submitted by the Permittee does not require certification by the "authorized individual" as defined by 326 IAC 2-1.1-1.

Compliance Monitoring Requirements

C.10 Compliance Monitoring [326 IAC 2-1.1-11]

Compliance with applicable requirements shall be documented as required by this permit. The Permittee shall be responsible for installing any necessary equipment and initiating any required monitoring related to that equipment, no more than ninety (90) days after receipt of this permit. If due to circumstances beyond its control, this schedule cannot be met, the Permittee may extend the compliance schedule an additional ninety (90) days provided the Permittee notifies:

Indiana Department of Environmental Management
Compliance Branch, Office of Air Quality
100 North Senate Avenue, P. O. Box 6015
Indianapolis, Indiana 46206-6015

in writing, prior to the end of the initial ninety (90) day compliance schedule, with full justification of the reasons for the inability to meet this date. The notification which shall be submitted by the Permittee does require the certification by the "authorized individual" as defined by 326 IAC 2-1.1-1.

C.11 Maintenance of Monitoring Equipment [IC 13-14-1-13]

(a) In the event that a breakdown of the monitoring equipment occurs, a record shall be made of the times and reasons of the breakdown and efforts made to correct the problem. To the extent practicable, supplemental or intermittent monitoring of the parameter should be implemented at intervals no less frequent than required in Section D of this permit until such time as the monitoring equipment is back in operation. In the case of continuous monitoring, supplemental or intermittent monitoring of the parameter should be implemented at intervals no less than one (1) hour until such time as the continuous monitor is back in operation.

(b) The Permittee shall install, calibrate, quality assure, maintain, and operate all necessary monitors and related equipment. In addition, prompt corrective action shall be initiated whenever indicated.

C.12 Monitoring Methods [326 IAC 3]

Any monitoring or testing performed to meet the applicable requirements of this permit shall be performed according to the provisions of 326 IAC 3, 40 CFR 60, Appendix A, or other approved methods as specified in this permit.

C.13 Actions Related to Noncompliance Demonstrated by a Stack Test

(a) When the results of a stack test performed in conformance with Section C - Performance Testing, of this permit exceed the level specified in any condition of this permit, the Permittee shall take appropriate corrective actions. The Permittee shall submit a description of these corrective actions to IDEM, OAQ, within thirty (30) days of receipt of the test results. The Permittee shall take appropriate action to minimize emissions from the affected emissions unit while the corrective actions are being implemented. IDEM, OAQ shall notify the Permittee within thirty (30) days, if the corrective actions taken are deficient. The Permittee shall submit a description of additional corrective actions taken to IDEM, OAQ within thirty (30) days of receipt of the notice of deficiency. IDEM, OAQ reserves the authority to use enforcement activities to resolve noncompliant stack tests.

(b) A retest to demonstrate compliance shall be performed within one hundred twenty (120) days of receipt of the original test results. Should the Permittee demonstrate to IDEM, OAQ that retesting in one-hundred and twenty (120) days is not practicable, IDEM, OAQ may extend the retesting deadline. Failure of the second test to demonstrate compliance with the appropriate permit conditions may be grounds for immediate revocation of the permit to operate the affected emissions unit.

The documents submitted pursuant to this condition do not require the certification by the "authorized individual" as defined by 326 IAC 2-1.1-1.

Record Keeping and Reporting Requirements

C.14 Malfunctions Report [326 IAC 1-6-2]

Pursuant to 326 IAC 1-6-2 (Records; Notice of Malfunction):

(a) A record of all malfunctions, including startups or shutdowns of any facility or emission control equipment, which result in violations of applicable air pollution control regulations or applicable emission limitations shall be kept and retained for a period of three (3) years and shall be made available to the Indiana Department of Environmental Management (IDEM), Office of Air Quality (OAQ) or appointed representative upon request.

(b) When a malfunction of any facility or emission control equipment occurs which lasts more than one (1) hour, said condition shall be reported to OAQ, using the Malfunction Report Forms (2 pages). Notification shall be made by telephone or facsimile, as soon as practicable, but in no event later than four (4) daytime business hours after the beginning of said occurrence.

(c) Failure to report a malfunction of any emission control equipment shall constitute a violation of 326 IAC 1-6, and any other applicable rules. Information of the scope and expected duration of the malfunction shall be provided, including the items specified in 326 IAC 1-6-2(a)(1) through (6).

(d) Malfunction is defined as any sudden, unavoidable failure of any air pollution control equipment, process, or combustion or process equipment to operate in a normal and usual manner. [326 IAC 1-2-39]

C.15 Monitoring Data Availability [326 IAC 2-6.1-2] [IC 13-14-1-13]

(a) With the exception of performance tests conducted in accordance with Section C-Performance Testing, all observations, sampling, maintenance procedures, and record keeping, required as a condition of this permit shall be performed at all times the equipment is operating at normal representative conditions.

(b) As an alternative to the observations, sampling, maintenance procedures, and record keeping of subsection (a) above, when the equipment listed in Section D of this permit is not operating, the Permittee shall either record the fact that the equipment is shut down or perform the observations, sampling, maintenance procedures, and record keeping that would otherwise be required by this permit.

(c) If the equipment is operating but abnormal conditions prevail, additional observations and sampling should be taken with a record made of the nature of the abnormality.

(d) If for reasons beyond its control, the operator fails to make required observations, sampling, maintenance procedures, or record keeping, reasons for this must be recorded.

(e) At its discretion, IDEM may excuse such failure providing adequate justification is documented and such failures do not exceed five percent (5%) of the operating time in any quarter.

(f) Temporary, unscheduled unavailability of staff qualified to perform the required observations, sampling, maintenance procedures, or record keeping shall be considered a valid reason for failure to perform the requirements stated in (a) above.

C.16 General Record Keeping Requirements [326 IAC 2-6.1-2]

(a) Records of all required monitoring data and support information shall be retained for a period of at least five (5) years from the date of monitoring sample, measurement, report, or application. These records shall be kept at the source location for a minimum of three (3) years and available upon the request of an IDEM, OAQ, representative. The records may be stored elsewhere for the remaining two (2) years as long as they are available upon request. If the Commissioner makes a written request for records to the Permittee, the Permittee shall furnish the records to the Commissioner within a reasonable time.

(b) Records of required monitoring information shall include, where applicable:

(1) The date, place, and time of sampling or measurements;

(2) The dates analyses were performed;

(3) The company or entity performing the analyses;

(4) The analytic techniques or methods used;

(5) The results of such analyses; and

(6) The operating conditions existing at the time of sampling or measurement.

(c) Support information shall include, where applicable:

(1) Copies of all reports required by this permit;

(2) All original strip chart recordings for continuous monitoring instrumentation;

(3) All calibration and maintenance records;

(4) Records of preventive maintenance shall be sufficient to demonstrate that improper maintenance did not cause or contribute to a violation of any limitation on emissions or potential to emit. To be relied upon subsequent to any such violation, these records may include, but are not limited to: work orders, parts inventories, and operator's standard operating procedures. Records of response steps taken shall indicate whether the response steps were performed in accordance with the Compliance Response Plan required by Section C - Compliance Monitoring Plan - Failure to take Response Steps, of this permit, and whether a deviation from a permit condition was reported. All records shall briefly describe what maintenance and response steps were taken and indicate who performed the tasks.

(d) All record keeping requirements not already legally required shall be implemented within ninety (90) days of permit issuance.

C.17 General Reporting Requirements [326 IAC 2-1.1-11] [326 IAC 2-6.1-2] [IC 13-14-1-13]

(a) Reports required by conditions in Section D of this permit shall be submitted to:

Indiana Department of Environmental Management
Compliance Branch, Office of Air Quality
100 North Senate Avenue, P. O. Box 6015
Indianapolis, Indiana 46206-6015

(b) Unless otherwise specified in this permit, any notice, report, or other submission required by this permit shall be considered timely if the date postmarked on the envelope or certified mail receipt, or affixed by the shipper on the private shipping receipt, is on or before the date it is due. If the document is submitted by any other means, it shall be considered timely if received by IDEM, OAQ, on or before the date it is due.

(c) The first report shall cover the period commencing on the date of issuance of this permit and ending on the last day of the reporting period.

C.18 Annual Notification [326 IAC 2-6.1-5(a)(5)]

(a) Annual notification shall be submitted to the Office of Air Quality stating whether or not the source is in operation and in compliance with the terms and conditions contained in this permit.

(b) Noncompliance with any condition must be specifically identified. If there are any permit conditions or requirements for which the source is not in compliance at any time during the year, the Permittee must provide a narrative description of how the source did or will achieve compliance and the date compliance was, or will be, achieved. The notification must be signed by an authorized individual.

(c) The annual notice shall cover the time period from January 1 to December 31 of the previous year, and shall be submitted in the format attached no later than March 1 of each year to:

Compliance Branch, Office of Air Quality
Indiana Department of Environmental Management
100 North Senate Avenue, P.O. Box 6015
Indianapolis, IN 46206-6015

(d) The notification shall be considered timely if the date postmarked on the envelope or certified mail receipt, or affixed by the shipper on the private shipping receipt, is on or before the date it is due. If the document is submitted by any other means, it shall be considered timely if received by IDEM, OAQ, on or before the date it is due.

SECTION D.1 EMISSIONS UNIT OPERATION CONDITIONS

Emissions unit Description

(a) One (1) sandblast wheelabrator, identified as PL-104, with a maximum capacity of one hundred (100) pounds per hour, using a baghouse as control, and exhausting inside the building.

(b) One (1) spinblast wheelabrator, identified as PL-101, with a maximum capacity of twenty-one hundred (2,100) pounds per hour, using a mpf cartridge collector as control, and exhausting inside the building.

(c) One (1) tumblast wheelabrator, identified as PL-100, with a maximum capacity of six hundred sixty (660) pounds per hour, using a baghouse as control, and exhausting inside the building.

(d) One (1) tumblast wheelabrator, identified as PL-118, with a maximum capacity of six hundred and sixty (660) pounds per hour, using a baghouse as control, and exhausting inside the building.

(h) Three (3) tumblast finishing units, identified as PL-123, PL-124, and PL-125, each with a maximum capacity of 660 pounds per hour. Each tumblast unit is equipped with a baghouse to control emissions of particulate matter. The baghouses exhaust inside the building.

(The information describing the process contained in this facility description box is descriptive information and does not constitute enforceable conditions.)

Emission Limitations and Standards

D.1.1 Particulate Matter (PM) [326 IAC 6-3]

Pursuant to 326 IAC 6-3 (Process Operations), the allowable PM emission rate from the shotblasting facilities shall not exceed 8.07 pounds per hour.

The pounds per hour limitation was calculated with the following equation:

Interpolation of the data for the process weight rate up to 60,000 pounds per hour shall be accomplished by use of the equation:

$E = 4.10\ P^{0.67}$ where E = rate of emission in pounds per hour; and P = process weight rate in tons per hour

Compliance Determination Requirements [326 IAC 2-5.1-3(e)(2)] [326 IAC 2-6.1-5(a)(2)]

D.1.2 Testing Requirements [326 IAC 2-1.1-11]

The Permittee is not required to test this emissions unit by this permit. However, IDEM may require compliance testing when necessary to determine if the emissions unit is in compliance. If testing is required by IDEM , compliance with the PM limit specified in Condition D.1.1 shall be determined by a performance test conducted in accordance with Section C - Performance Testing.

D.1.3 Particulate Matter (PM)

The baghouses and the mpf cartridge collector for PM control shall be in operation at all times when the shotblast machines are in operation.

Compliance Monitoring Requirements [326 IAC 2-5.1-3(e)(2)] [326 IAC 2-6.1-5(a)(2)]

D.1.4 Baghouse Inspections

An inspection shall be performed each calender quarter of all bags controlling the blast cleaning operation when venting to the atmosphere. A baghouse inspection shall be performed within three months of redirecting vents to the atmosphere and every three months thereafter. Inspections are optional when venting to the indoors. All defective bags shall be replaced.

D.1.5 Broken or Failed Bag Detection

In the event that bag failure has been observed:

(a) The affected compartments will be shut down immediately until the failed units have been repaired or replaced. Within eight (8) hours of the determination of failure, response steps according to the timetable described in the Compliance Response Plan shall be initiated. For any failure with corresponding response steps and timetable not described in the Compliance Response Plan, response steps shall be devised within eight (8) hours of discovery of the failure and shall include a timetable for completion. Operations may continue only if the event qualifies as an emergency and the Permittee satisfies the requirements of the emergency provisions of this permit (Section C - Malfunction Provisions).

(b) For single compartment baghouses, failed units and the associated process will be shut down immediately until the failed units have been repaired or replaced. Operations may continue only if the event qualifies as an emergency and the Permittee satisfies the requirements of the emergency provisions of this permit (Section C - Malfunction Provisions).

SECTION D.2 EMISSIONS UNIT OPERATION CONDITIONS

Emissions unit Description*:*

(f) Degreasing operations consisting of:

(1) Handwipe operations using a maximum of 1,080 gallons of degreasing solvent per year;

(2) Eight (8) cold cleaner degreaser dip tanks (identified as PL-103, PL-111, PL-112, PL-113, PL-114, PL-115, PL-116, and PL-117); and

(3) Two (2) vibratory degreaser tanks (identified as PL-102 and PL-120).

(The information describing the process contained in this facility description box is descriptive information and does not constitute enforceable conditions.)

Emission Limitations and Standards

D.2.1 Volatile Organic Compounds (VOC)

The potential to emit volatile organic compounds (VOC) from the spray paint booth (Section D.4), dip coating operation (Section D.4) and degreasing operations is less than one hundred (100) tons per year. Therefore, 326 IAC 2-7 does not apply. Any change or modification which increases the potential emissions to equal to or greater than one hundred (100) tons per year must be approved by IDEM, OAQ before any change is made.

D.2.2 Hazardous Air Pollutants (HAPs)

The potential to emit hazardous air pollutants (HAPs) from the spray paint booth (Section D.4), dip coating operations (Section D.4), and degreasing operations is less than ten (10) ten tons per year of a single HAP and less than twenty-five (25) tons per year. Therefore, 326 IAC 2-4-1 will not apply. Any change or modification which may increase to potential emissions to ten (10) tons per year of a single HAP or twenty-five (25) tons per year of any combination of HAPs must be approved by IDEM, OAQ before any such change may occur.

D.2.3 Volatile Organic Compounds (VOC)

Pursuant to 326 IAC 8-3-2 (Cold Cleaner Operations), for cold cleaning operations constructed after January 1, 1980, the owner or operator shall:

(a) Equip the cleaner with a cover;

(b) Equip the cleaner with a facility for draining cleaned parts;

(c) Close the degreaser cover whenever parts are not being handled in the cleaner;

(d) Drain cleaned parts for at least fifteen (15) seconds or until dripping ceases;

(e) Provide a permanent, conspicuous label summarizing the operation requirements;

(f) Store waste solvent only in covered containers and not dispose of waste solvent or transfer it to another party, in such a manner that greater than twenty percent (20%) of the waste solvent (by weight) can evaporate into the atmosphere.

D.2.4 Volatile Organic Compounds (VOC)

(a) Pursuant to 326 IAC 8-3-5(a) (Cold Cleaner Degreaser Operation and Control), the owner or operator of a cold cleaner degreaser facility construction of which commenced

after July 1, 1990, shall ensure that the following control equipment requirements are met:

(1) Equip the degreaser with a cover. The cover must be designed so that it can be easily operated with one (1) hand if:

(A) The solvent volatility is greater than two (2) kiloPascals (fifteen (15) millimeters of mercury or three-tenths (0.3) pounds per square inch) measured at thirty-eight degrees Celsius ($38^{O}C$) (one hundred degrees Fahrenheit ($100^{O}F$));

(B) The solvent is agitated; or

(C) The solvent is heated.

(2) Equip the degreaser with a facility for draining cleaned articles. If the solvent volatility is greater than four and three-tenths (4.3) kiloPascals (thirty-two (32) millimeters of mercury or six-tenths (0.6) pounds per square inch) measured at thirty-eight degrees Celsius ($38^{O}C$) (one hundred degrees Fahrenheit ($100^{O}F$)), then the drainage facility must be internal such that articles are enclosed under the cover while draining. The drainage facility may be external for applications where an internal type cannot fit into the cleaning system.

(3) Provide a permanent, conspicuous label which lists the operating requirements outlined in subsection (b).

(4) The solvent spray, if used, must be a solid, fluid stream and shall be applied at a pressure which does not cause excessive splashing.

(5) Equip the degreaser with one (1) of the following control devices if the solvent volatility is greater than four and three-tenths (4.3) kiloPascals (thirty-two (32) millimeters of mercury or six-tenths (0.6) pounds per square inch) measured at thirty-eight degrees Celsius ($38^{O}C$) (one hundred degrees Fahrenheit ($100^{O}F$)), or if the solvent is heated to a temperature greater than forty-eight and nine-tenths degrees Celsius ($48.9^{O}C$) (one hundred twenty degrees Fahrenheit ($120^{O}F$)):

(A) A freeboard that attains a freeboard ratio of seventy-five hundredths (0.75) or greater.

(B) A water cover when solvent is used is insoluble in, and heavier than, water.

(C) Other systems of demonstrated equivalent control such as a refrigerated chiller of carbon adsorption. Such systems shall be submitted to the U.S. EPA as a SIP revision.

(b) Pursuant to 326 IAC 8-3-5(b) (Cold Cleaner Degreaser Operation and Control), the owner or operator of a cold cleaning facility construction of which commenced after July 1, 1990, shall ensure that the following operating requirements are met:

(1) Close the cover whenever articles are not being handled in the degreaser.

(2) Drain cleaned articles for at least fifteen (15) seconds or until dripping ceases.

(3) Store waste solvent only in covered containers and prohibit the disposal or transfer of waste solvent in any manner in which greater than twenty percent (20%) of the waste solvent by weight could evaporate.

Record Keeping and Reporting Requirements [326 IAC 2-5.1-3(e)(2)] [326 IAC 2-6.1-5(a)(2)]

D.2.5 Record Keeping Requirement

(a) To document compliance with Condition D.2.1 and D.2.2, the Permittee shall maintain records in accordance with (1) through (4) below and the records required in Conditions D.4.2 and D.4.3. Records maintained for (1) through (6) shall be taken monthly and shall be complete and sufficient to establish compliance with the VOC and HAP limits established in Conditions D.2.1 and D.2.2.

(1) The amount and VOC and HAP content of each solvent used in degreasing operations. Records shall include purchase orders, invoices, and material safety data sheets (MSDS) necessary to verify the type and amount of solvent used.

(2) A log of the dates of use;

(3) The total VOC and HAP usage for each month; and

(4) The weight of VOC and HAP emitted for each compliance period.

(b) These records shall be maintained in accordance with Section C - General Record Keeping Requirements.

SECTION D.3 EMISSIONS UNIT OPERATION CONDITIONS

Emissions Unit Description

(g) One (1) bake-off oven, identified as PL-10, with a maximum capacity of one-half (0.5) million British thermal units (MMBtu) per hour, exhausting through one (1) stack identified as S9. The oven is equipped with an integral secondary combustion chamber.

(i) One (1) natural gas-fired dryer, identified as PL-121B, with a maximum capacity of 500,000 Btu per hour. This emission unit exhausts at stack PL-212B.

(j) One (1) aqueous washer, identified as PL-122, using only water and detergents and employing two natural gas-fired tube heaters with a maximum combined capacity of 900,000 Btu per hour. This emission unit exhausts at stack PL-122.

(m) One (1) natural gas-fired Proceco aqueous core washer, identified as PL-106, using only water and detergents, with a maximum heat input capacity of 900,000 Btu per hour. This emission unit exhausts at stack PL-106.

(n) One (1) natural gas-fired Mart aqueous parts washer, identified as PL-105, using only water and detergents, with a maximum heat input capacity of 500,000 Btu per hour. This emission unit exhausts at stack PL-105.

(o) One (1) natural gas-fired Mart aqueous tornado parts washer, identified as PL-107, using only water and detergents, with a maximum heat input capacity of 500,000 Btu per hour. This emission unit exhausts at stack PL-107.

(p) One (1) natural gas-fired Hotsy aqueous parts washer, identified as PL-108, using only water and detergents, with a maximum heat input capacity of 500,000 Btu per hour. This emission unit exhausts at stack PL-108.

(q) One (1) natural gas-fired New Wash aqueous clutch washer, identified as PL-109, using only water and detergents, with a maximum heat input capacity of 500,000 Btu per hour. This emission unit exhausts at stack PL-109.

(The information describing the process contained in this facility description box is descriptive information and does not constitute enforceable conditions.)

D.3.1 Source Specific Operating Agreement Program [326 IAC 2-9]

As requested by the Permittee, 326 IAC 2-9-13 (External Combustion) is no longer applicable to the bake-off oven, dryer and aqueous washer. Therefore, the operating conditions contained in SSOA 063-1118-00046 issued on October 9, 1999, are no longer applicable.

D.3.2 Incinerator Requirements [326 IAC 4-2]

Pursuant to 326 IAC 4-2, the bake-off oven shall:

(a) Consist of primary and secondary chambers or the equivalent;

(b) Be equipped with a primary burner unless burning wood products;

(c) Comply with 326 IAC 5-1 and 326 IAC 2;

(d) Be maintained properly as specified by the manufacturer and approved by the commissioner;

(e) Be operated according to the manufacturer's recommendations and only burn waste approved by the commissioner;

(f) Comply with other state and/or local rules or ordinances regarding installation and operation of incinerators;

(g) Be operated so that emissions of hazardous material including but not limited to viable pathogenic bacteria, dangerous chemicals or gases, or noxious odors are prevented;

(h) Not emit particulate matter in excess of five-tenths (0.5) pounds of particulate matter per one thousand (1,000) pounds of dry exhaust gas at standard condition corrected to fifty percent (50%) excess air; and

(i) Not create a nuisance or fire hazard.

If any of the above result, the burning shall be terminated immediately.

SECTION D.4 EMISSIONS UNIT OPERATION CONDITIONS

Emissions unit Description

(k) One (1) dip coating booth, identified as PL-121A, with a maximum capacity of 750 metal brake shoes per hour, and emissions exhausted through stack PL-121A.

(l) One (1) spray paint booth (identified as PB-1) equipped with two (2) HVLP spray guns, for metal heavy duty truck parts, with a maximum capacity of forty (40) transmission units per hour, dry filters for overspray control and exhausting at stack S-13.

(The information describing the process contained in this facility description box is descriptive information and does not constitute enforceable conditions.)

Emission Limitations and Standards

D.4.1 Volatile Organic Compound (VOC) [326 IAC 8-2-9]

Pursuant to 326 IAC 8-2-9 (Miscellaneous Metal Coating Operations), the volume weighted average volatile organic compound (VOC) content of coating applied to the metal truck parts shall be limited to 3.5 pounds of VOCs per gallon of coating less water, as applied for any calender day, for forced warm air (less than 90EC or 194 EF) dried coatings.

Solvent sprayed from HVLP application equipment during cleanup or color changes shall be directed into containers. Such containers shall be closed as soon as such solvent spraying is complete, and the waste solvent shall be disposed of in such a manner that evaporation is minimized.

D.4.2 Volatile Organic Compounds (VOC)

The potential to emit volatile organic compounds (VOC) from the spray paint booth, dip coating operation and degreasing operations (Section D.2) is less than one hundred (100) tons per year. Therefore, 326 IAC 2-7 does not apply. Any change or modification which increases the potential emissions to equal to or greater than one hundred (100) tons per year must be approved by IDEM, OAQ before any change is made.

D.4.3 Hazardous Air Pollutants (HAPs)

The potential to emit hazardous air pollutants (HAPs) from the spray paint booth, dip coating operations, and degreasing operations (Section D.2) is less than ten (10) ten tons per year of a single HAP and less than twenty-five (25) tons per year. Therefore, 326 IAC 2-7 will not apply. Any change or modification which may increase the potential emissions to ten (10) tons per year of a single HAP or twenty-five (25) tons per year of any combination of HAPs must be approved by IDEM, OAQ before any such change may occur.

D.4.4 Particulate Matter (PM) [326 IAC 6-3-2(c)]

The PM from the spray booth (identified as PB-1) shall not exceed the pound per hour emission rate established as E in the following formula:

Interpolation of the data for the process weight rate up to sixty thousand (60,000) pounds per hour shall be accomplished by use of the equation:

$E = 4.10\ P^{0.67}$ where E = rate of emission in pounds per hour; and
P = process weight rate in tons per hour

D.4.5 Source Specific Operating Agreement Program [326 IAC 2-9]

326 IAC 2-9-3 (Surface Coating or Graphic Arts Operation) is not applicable to the surface coating operations because the source cannot comply with the fifteen (15) pounds per day VOC

limitation. Therefore, the operating conditions contained in SSOA 063-10403-00046, issued January 12, 1999, are no longer applicable to this source.

D.4.6 Preventive Maintenance Plan [326 IAC 1-6-3]

A Preventive Maintenance Plan, in accordance with Section C - Preventive Maintenance Plan, of this permit, is required for these emission units and their control devices.

Compliance Determination Requirements

D.4.7 Particulate Matter (PM)

The dry filters for PM control shall be in operation at all times when the spray booth (identified as PB-1) is in operation.

D.4.8 Testing Requirements [326 IAC 2-1.1-11]

The Permittee is not required to test these emission units by this permit. However, IDEM may require compliance testing when necessary to determine if the emissions from these units are in compliance. If testing is required by IDEM, compliance with the VOC and PM limits specified in Conditions D.4.1 and D.4.4 shall be determined by a performance test conducted in accordance with Section C - Performance Testing.

D.4.9 Volatile Organic Compounds (VOC)

Compliance with the VOC content and usage limitations contained in Condition D.4.1, D.4.2, and D.4.3 shall be determined pursuant to 326 IAC 8-1-4(a)(3) and 326 IAC 8-1-2(a) using formulation data supplied by the coating manufacturer. IDEM, OAQ, reserves the authority to determine compliance using Method 24 in conjunction with the analytical procedures specified in 326 IAC 8-1-4.

Compliance Monitoring Requirements [326 IAC 2-5.1-3(e)(2)] [326 IAC 2-6.1-5(a)(2)]

D.4.10 Monitoring

(a) Daily inspections shall be performed to verify the placement, integrity and particle loading of the filters. To monitor the performance of the dry filters, weekly observations shall be made of the overspray from the spray booth stack while one or more of the booths are in operation. The Compliance Response Plan shall be followed whenever a condition exists which should result in a response step. Failure to take response steps in accordance with Section C - Compliance Monitoring Plan - Failure to Take Response Steps, shall be considered a violation of this permit.

(b) Monthly inspections shall be performed of the coating emissions from the stack and the presence of overspray on the rooftops and the nearby ground. The Compliance Response Plan for this unit shall contain troubleshooting contingency and response steps for when a noticeable change in overspray emission, or evidence of overspray emission is observed. The Compliance Response Plan shall be followed whenever a condition exists which should result in a response step. Failure to take response steps in accordance with Section C - Compliance Monitoring Plan - Failure to Take Response Steps, shall be considered a violation of this permit.

(c) Additional inspections and preventive measures shall be performed as prescribed in the Preventive Maintenance Plan.

Record Keeping and Reporting Requirements [326 IAC 2-5.1-3(e)(2)] [326 IAC 2-6.1-5(a)(2)]

D.4.11 Record Keeping Requirements

(a) To document compliance with Conditions D.4.1, D.4.2, and D.4.3, the Permittee shall maintain records in accordance with (1) through (3) below. Records maintained for (1) through (3) shall be taken monthly and shall be complete and sufficient to establish

compliance with the VOC and HAP usage limits and/or emission limits established in Conditions D.4.1, D.4.2, and D.4.3:

(1) The amount and VOC and HAP content of each coating material and solvent used. Records shall include purchase orders, invoices, and material safety data sheets (MSDS) necessary to verify the type and amount used. Solvent usage records shall differentiate between those added to coatings (thinners) and those used as cleanup solvents;

(2) A log of the dates of use for the coatings, thinners, and cleanup solvents; and

(3) The weight of VOCs and HAP, emitted for each compliance period.

(b) To document compliance with Condition D.4.10, the Permittee shall maintain a log of weekly overspray observations, daily and monthly inspections, and those additional inspections prescribed by the Preventive Maintenance Plan.

(c) All records shall be maintained in accordance with Section C - General Record Keeping Requirements, of this permit.

SECTION D.5 EMISSIONS UNIT OPERATION CONDITIONS

Emission Description

(e) One (1) MIG welding station, identified as PL-119, with a maximum wire consumption of 0.02 pounds per day, and exhausting inside the building.

(The information describing the process contained in this facility description box is descriptive information and does not constitute enforceable conditions.)

Emission Limitations and Standards

D.5.1 Particulate Matter (PM) [326 IAC 6-3]

Pursuant to 326 IAC 6-3-2(c), the allowable particulate matter emissions rate from any process not already regulated by 326 IAC 6-1 or any New Source Performance Standard, and which has a maximum process weight rate less than 100 pounds per hour shall not exceed 0.551 pounds per hour. Therefore, the welding operation shall not exceed 0.551 pounds per hour per unit, based on a maximum process weight of less than 100 pounds per hour per unit.

Compliance Determination Requirements [326 IAC 2-5.1-3(e)(2)] [326 IAC 2-6.1-5(a)(2)]

D.5.2 Testing Requirements [326 IAC 2-1.1-11]

The Permittee is not required to test this emissions unit by this permit. However, IDEM may require compliance testing when necessary to determine if the emissions unit is in compliance. If testing is required by IDEM, compliance with the PM limit specified in Condition D.5.1 shall be determined by a performance test conducted in accordance with Section C - Performance Testing.

INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF AIR QUALITY
COMPLIANCE DATA SECTION

MINOR SOURCE OPERATING PERMIT
ANNUAL NOTIFICATION

This form should be used to comply with the notification requirements under 326 IAC 2-6.1-5(a)(5).

Company Name:	**Arvin Meritor - QRI**
Address:	**849 Whitaker Road**
City:	**Plainfield, Indiana 46168**
Phone #:	
MSOP #:	**063-11118-00046**

I hereby certify that Arvin Meritor - QRI is **9** still in operation.
9 no longer in operation.

I hereby certify that Arvin Meritor - QRI is **9** in compliance with the requirements of MSOP 063-11118-00046.
9 not in compliance with the requirements of MSOP 063-11118-00046.

Authorized Individual (typed):
Title:
Signature:
Date:

If there are any conditions or requirements for which the source is not in compliance, provide a narrative description of how the source did or will achieve compliance and the date compliance was, or will be achieved.

Noncompliance:

MALFUNCTION REPORT

INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF AIR QUALITY
FAX NUMBER - 317 233-5967

This form should only be used to report malfunctions applicable to Rule 326 IAC 1-6 and to qualify for the exemption under 326 IAC 1-6-4.

THIS FACILITY MEETS THE APPLICABILITY REQUIREMENTS BECAUSE IT HAS POTENTIAL TO EMIT 25 TONS/YEAR PARTICULATE MATTER ?_____, 25 TONS/YEAR SULFUR DIOXIDE ?_____, 25 TONS/YEAR NITROGEN OXIDES?_____, 25 TONS/YEAR VOC ?_____, 25 TONS/YEAR HYDROGEN SULFIDE ?_____, 25 TONS/YEAR TOTAL REDUCED SULFUR ?_____, 25 TONS/YEAR REDUCED SULFUR COMPOUNDS ?_____, 25 TONS/YEAR FLUORIDES ?_____, 100TONS/YEAR CARBON MONOXIDE ?_____, 10 TONS/YEAR ANY SINGLE HAZARDOUS AIR POLLUTANT ?_____, 25 TONS/YEAR ANY COMBINATION HAZARDOUS AIR POLLUTANT ?_____, 1 TON/YEAR LEAD OR LEAD COMPOUNDS MEASURED AS ELEMENTAL LEAD ?_____, OR IS A SOURCE LISTED UNDER 326 IAC 2-5.1-3(2) ?_____. EMISSIONS FROM MALFUNCTIONING CONTROL EQUIPMENT OR PROCESS EQUIPMENT CAUSED EMISSIONS IN EXCESS OF APPLICABLE LIMITATION _____.

THIS MALFUNCTION RESULTED IN A VIOLATION OF: 326 IAC _____ OR, PERMIT CONDITION # _____ AND/OR PERMIT LIMIT OF _____

THIS INCIDENT MEETS THE DEFINITION OF 'MALFUNCTION' AS LISTED ON REVERSE SIDE ? Y N

THIS MALFUNCTION IS OR WILL BE LONGER THAN THE ONE (1) HOUR REPORTING REQUIREMENT ? Y N

COMPANY:_____PHONE NO. ( )_____
LOCATION: (CITY AND COUNTY)_____
PERMIT NO. _____ AFS PLANT ID: _____ AFS POINT ID: _____ INSP:_____ _
CONTROL/PROCESS DEVICE WHICH MALFUNCTIONED AND REASON:_____
_____

DATE/TIME MALFUNCTION STARTED: _____/_____/ 20____ _____ AM /PM

ESTIMATED HOURS OF OPERATION WITH MALFUNCTION CONDITION: _____

DATE/TIME CONTROL EQUIPMENT BACK-IN SERVICE_____/_____/ 20____ _____ AM/PM

TYPE OF POLLUTANTS EMITTED: TSP, PM-10, SO2, VOC, OTHER:_____

ESTIMATED AMOUNT OF POLLUTANT EMITTED DURING MALFUNCTION: _____

_____

MEASURES TAKEN TO MINIMIZE EMISSIONS:_____

_____

REASONS WHY FACILITY CANNOT BE SHUTDOWN DURING REPAIRS:

CONTINUED OPERATION REQUIRED TO PROVIDE ESSENTIAL* SERVICES:_____
CONTINUED OPERATION NECESSARY TO PREVENT INJURY TO PERSONS:_____
CONTINUED OPERATION NECESSARY TO PREVENT SEVERE DAMAGE TO EQUIPMENT:_____
INTERIM CONTROL MEASURES: (IF APPLICABLE)_____
_____
_____

MALFUNCTION REPORTED BY:_____TITLE:_____
(SIGNATURE IF FAXED)

MALFUNCTION RECORDED BY:_____DATE:_____TIME:_____

*SEE PAGE 2

Please note - This form should only be used to report malfunctions applicable to Rule 326 IAC 1-6 and to qualify for the exemption under 326 IAC 1-6-4.

326 IAC 1-6-1 Applicability of rule

Sec. 1. This rule applies to the owner or operator of any facility required to obtain a permit under 326 IAC 2-5.1 or 326 IAC 2-6.1.

326 IAC 1-2-39 "Malfunction" definition

Sec. 39. Any sudden, unavoidable failure of any air pollution control equipment, process, or combustion or process equipment to operate in a normal and usual manner.

***Essential services** are interpreted to mean those operations, such as, the providing of electricity by power plants. Continued operation solely for the economic benefit of the owner or operator shall not be sufficient reason why a facility cannot be shutdown during a control equipment shutdown.

If this item is checked on the front, please explain rationale:

_____

_____

August 20, 2001

Mr. Brian Cavagnini
Arvin Meritor - QRI
849 Whitaker Road
Plainfield, Indiana 46168

Re: 063-13938
First Significant Permit Revision to
MSOP 063-11118-00046

Dear Mr. Cavagnini:

Arvin Meritor - QRI was issued a minor source operating permit on October 10, 1999 for truck parts remanufacturing plant. A letter requesting a revision to this permit was received on February 19, 2001. Pursuant to the provisions of 326 IAC 2-6.1-6 a significant permit revision to this permit is hereby approved as described in the attached Technical Support Document.

The permit has been modified to include three (3) new tumblast finishing units, one (1) natural gas-fired dryer, one (1) natural gas-fired washing unit, one (1) dip coating booth, and one (1) addition spray gun for the existing spray booth.

The following construction conditions are applicable to the proposed project:

1. The data and information supplied with the application shall be considered part of this permit revision approval. Prior to any proposed change in construction which may affect the potential to emit (PTE) of the proposed project, the change must be approved by the Office of Air Quality (OAQ).

2. This approval to construct does not relieve the permittee of the responsibility to comply with the provisions of the Indiana Environmental Management Law (IC 13-11 through 13-20; 13-22 through 13-25; and 13-30), the Air Pollution Control Law (IC 13-17) and the rules promulgated thereunder, as well as other applicable local, state, and federal requirements.

3. Pursuant to IC 13-15-5-3, this approval to construct becomes effective upon its issuance.

4. Pursuant to 326 IAC 2-1.1-9 (Revocation), the Commissioner may revoke this approval if construction is not commenced within eighteen (18) months after receipt of this approval or if construction is suspended for a continuous period of one (1) year or more.

5. All requirements and conditions of this construction approval shall remain in effect unless modified in a manner consistent with procedures established pursuant to 326 IAC 2.

Pursuant to 326 IAC 2-6.1-6, the minor source operating permit shall be revised by incorporating the significant permit revision into the permit. All other conditions of the permit shall remain unchanged and in effect. Please attach a copy of this permit revision which includes this letter, the attached operating conditions applicable to these emission units, and revised permit pages to the front of the original permit.

Pursuant to Contract No. A305-0-00-36, IDEM, OAQ has assigned the processing of this application to Eastern Research Group, Inc., (ERG). Therefore, questions should be directed to Amanda Baynham, ERG, P.O. Box 2010, Morrisville, North Carolina 27560, or call (919) 468-7910 to speak directly to Ms. Baynham. Questions may also be directed to Duane Van Laningham at IDEM, OAQ, 100 North Senate Avenue, P.O. Box 6015, Indianapolis, Indiana, 46206-6015, or call (800) 451-6027, press 0 and ask for Duane Van Laningham, or extension 3-6878, or dial (317) 233-6878.

Sincerely,

Paul Dubenetzky, Chief
Permits Branch
Office of Air Quality

Attachments

ERG/AB

cc: File - Hendricks County
U.S. EPA, Region V
Air Compliance Section Inspector - Marc Goldman
Compliance Data Section - Karen Nowak
Administrative and Development - Janet Mobley
Technical Support and Modeling - Michele Boner

Indiana Department of Environmental Management
Office of Air Quality

Addendum to the
Technical Support Document for Significant Permit Revision to a
Minor Source Operating Permit (MSOP)

Source Background and Description

Source Name:	Arvin Meritor - QRI
Source Location:	849 Whitaker Road, Plainfield, Indiana 46168
County:	Hendricks
SIC Code:	3714
Operation Permit No.:	MSOP 063-11118-00046
Operation Permit Issuance Date:	October 10, 1999
First Significant Permit Revision:	063-13938-00046
Permit Reviewer:	ERG/AB

On July 12, 2001, the Office of Air Quality (OAQ) had a notice published in the Hendricks County Flyer, Plainfield, Indiana, stating that Arvin Meritor - QRI had applied for a Significant Permit Revision to their MSOP to construct and operate three new tumblast finishing units, one natural gas-fired dryer, one natural gas-fired aqueous washer, one dip coating booth, and one HVLP spray gun. The notice also stated that OAQ proposed to issue a permit for this operation and provided information on how the public could review the proposed permit and other documentation. Finally, the notice informed interested parties that there was a period of thirty (30) days to provide comments on whether or not this permit should be issued as proposed.

Upon further review, the OAQ has decided to make the following revisions to the permit (bolded language has been added, while the language with a line through it has been deleted). The Table Of Contents has been modified to reflect these changes.

(1) For clarification purposes, the description of the emissions units have been revised as follows:

A.2 Emissions units and Pollution Control Equipment Summary

This stationary source is approved to construct and operate the following emissions units and pollution control devices:

(a) One (1) sandblast wheelabrator, identified as PL-104, with a maximum capacity of one hundred (100) pounds per hour, using a baghouse as control, and exhausting inside the building.

(b) One (1) spinblast wheelabrator, identified as PL-101, with a maximum capacity of twenty-one hundred (2,100) pounds per hour, using a mpf cartridge collector as control, and exhausting inside the building.

(c) One (1) tumblast wheelabrator, identified as PL-100, with a maximum capacity of six hundred sixty (660) pounds per hour, using a baghouse as control, and exhausting inside the building.

(d) One (1) tumblast wheelabrator, identified as PL-118, with a maximum capacity of six hundred and sixty (660) pounds per hour, using a baghouse as control, and exhausting inside the building.

(e) One (1) MIG welding station, identified as PL-119, with a maximum wire consumption of 0.02 pounds per day, and exhausting inside the building.

(f) Degreasing operations consisting of:

(1) Handwipe operations using a maximum of 1,080 gallons of degreasing solvent per year;

(2) Eight (8) cold cleaner degreaser dip tanks (identified as PL-103, PL-111, PL-112, PL-113, PL-114, PL-115, PL-116, and PL-117); and

(3) Two (2) vibratory degreaser tanks (identified as PL-102 and PL-120).

(g) One (1) bake-off oven, identified as PL-110, with a maximum capacity of one-half (0.5) million British thermal units (MMBtu) per hour, exhausting through one (1) stack identified as S-9. **The oven is equipped with an integral secondary combustion chamber.**

(h) Three (3) tumblast finishing units, identified as PL-123, PL-124, and PL-125, each with a maximum capacity of 660 pounds per hour. Each tumblast unit is equipped with a baghouse to control emissions of particulate matter. **The baghouses exhaust inside the building.**

(i) One (1) natural gas-fired dryer, identified as PL-121B, with a maximum capacity of 500,000 Btu per hour. **This emission unit exhausts at stack PL-121B.**

(j) One (1) aqueous washer, identified as PL-122, using only water and detergents and employing two natural gas-fired tube heaters with a maximum combined capacity of 900,000 Btu per hour. **This emission unit exhausts at stack PL-122.**

(k) One (1) dip coating booth, identified as PL-121A, with a maximum capacity of 750 metal brake shoes per hour, and emissions exhausted through stack PL-121A.

(l) One (1) spray paint booth (identified as PB-1) equipped with two (2) HVLP spray guns, for metal heavy duty truck parts, with a maximum capacity of forty (40) transmission units per hour, dry filters for overspray control and exhausting at stack S-13.

(m) One (1) natural gas-fired Proceco aqueous core washer, identified as PL-106, using only water and detergents, with a maximum heat input capacity of 900,000 Btu per hour. **This emission unit exhausts at stack PL-106.**

(n) One (1) natural gas-fired Mart aqueous parts washer, identified as PL-105, using only water and detergents, with a maximum heat input capacity of 500,000 Btu per hour. **This emission unit exhausts at stack PL-105.**

(o) One (1) natural gas-fired Mart aqueous tornado parts washer, identified as PL-107, using only water and detergents, with a maximum heat input capacity of 500,000 Btu per hour. **This emission unit exhausts at stack PL-107.**

(p) One (1) natural gas-fired Hotsy aqueous parts washer, identified as PL-108, using only water and detergents, with a maximum heat input capacity of 500,000 Btu per hour. **This emission unit exhausts at stack PL-108.**

(q) One (1) natural gas-fired New Wash aqueous clutch washer, identified as PL-109, using only water and detergents, with a maximum heat input capacity of 500,000 Btu per hour. **This emission unit exhausts at stack PL-109.**

SECTION D.1 EMISSIONS UNIT OPERATION CONDITIONS

Emissions unit Description

(a) One (1) sandblast wheelabrator, identified as PL-104, with a maximum capacity of one hundred (100) pounds per hour, using a baghouse as control, and exhausting inside the building.

(b) One (1) spinblast wheelabrator, identified as PL-101, with a maximum capacity of twenty-one hundred (2,100) pounds per hour, using a mpf cartridge collector as control, and exhausting inside the building.

(c) One (1) tumblast wheelabrator, identified as PL-100, with a maximum capacity of six hundred sixty (660) pounds per hour, using a baghouse as control, and exhausting inside the building.

(d) One (1) tumblast wheelabrator, identified as PL-118, with a maximum capacity of six hundred and sixty (660) pounds per hour, using a baghouse as control, and exhausting inside the building.

(h) Three (3) tumblast finishing units, identified as PL-123, PL-124, and PL-125, each with a maximum capacity of 660 pounds per hour. Each tumblast unit is equipped with a baghouse to control emissions of particulate matter. **The baghouses exhaust inside the building.**

(The information describing the process contained in this facility description box is descriptive information and does not constitute enforceable conditions.)

SECTION D.3 EMISSIONS UNIT OPERATION CONDITIONS

Emissions Unit Description

(g) One (1) bake-off oven, identified as PL-10, with a maximum capacity of one-half (0.5) million British thermal units (MMBtu) per hour, exhausting through one (1) stack identified as S9. **The oven is equipped with an integral secondary combustion chamber.**

(i) One (1) natural gas-fired dryer, identified as PL-121B, with a maximum capacity of 500,000 Btu per hour. **This emission unit exhausts at stack PL-121B.**

(j) One (1) aqueous washer, identified as PL-122, using only water and detergents and employing two natural gas-fired tube heaters with a maximum combined capacity of 900,000 Btu per hour. **This emission unit exhausts at stack PL-122.**

(m) One (1) natural gas-fired Proceco aqueous core washer, identified as PL-106, using only water and detergents, with a maximum heat input capacity of 900,000 Btu per hour. **This emission unit exhausts at stack PL-106.**

(n) One (1) natural gas-fired Mart aqueous parts washer, identified as PL-105, using only water and detergents, with a maximum heat input capacity of 500,000 Btu per hour. **This emission unit exhausts at stack PL-105.**

(o) One (1) natural gas-fired Mart aqueous tornado parts washer, identified as PL-107, using only water and detergents, with a maximum heat input capacity of 500,000 Btu per hour. **This emission unit exhausts at stack PL-107.**

(p) One (1) natural gas-fired Hotsy aqueous parts washer, identified as PL-108, using only water and detergents, with a maximum heat input capacity of 500,000 Btu per hour. **This emission unit exhausts at stack PL-108.**

(q) One (1) natural gas-fired New Wash aqueous clutch washer, identified as PL-109, using only water and detergents, with a maximum heat input capacity of 500,000 Btu per hour. **This emission unit exhausts at stack PL-109.**

(The information describing the process contained in this facility description box is descriptive information and does not constitute enforceable conditions.)

(2) In the Technical Support (TSD) under the heading "Justification for Permit Revision," OAQ incorrectly stated that the permit revision was being performed pursuant to 326 IAC 2-6.1-6(i)(B). The correct "Justification for the Permit Revision" is as follows:

"This permit revision is being performed pursuant to 326 IAC 2-6.1-6(i)(E), which states that a Significant Permit Revision is required for any modification to a source that has the potential to emit of twenty-five (25) tons per year of volatile organic compounds."

Indiana Department of Environmental Management
Office of Air Quality

Technical Support Document (TSD) for a
Minor Source Operating Permit Revision

Source Background and Description

Source Name:	Arvin Meritor - QRI
Source Location:	849 Whitaker Road, Plainfield, Indiana 46168
County:	Hendricks
SIC Code:	3714
Operation Permit No.:	MSOP 063-11118-00046
Operation Permit Issuance Date:	October 10, 1999
First Significant Permit Revision:	063-13938-00046
Permit Reviewer:	ERG/AB

The Office of Air Quality (OAQ) has reviewed an application from Arvin Meritor - QRI relating to the construction and operation of the following emission units:

(a) Three (3) tumblast finishing units, identified as PL-123, PL-124, and PL-125, each with a maximum capacity of 660 pounds per hour. Each tumblast unit is equipped with a baghouse to control emissions of particulate matter.

(b) One (1) natural gas-fired dryer, identified as PL-121B, with a maximum capacity of 500,000 Btu per hour.

(c) One (1) aqueous washer, identified as PL-122, using only water and detergents and employing two natural gas-fired tube heaters with a maximum combined capacity of 900,000 Btu per hour.

(d) One (1) dip coating booth, identified as PL-121A, with a maximum capacity of 750 metal brake shoes per hour, and emissions exhausted through stack PL-121A.

(e) One (1) HVLP spray gun for the existing spray booth (identified as PB-1). This additional spray gun will increase the maximum throughput of the spray booth 40 parts per hour.

Permitted Emission Units and Pollution Control Equipment

The source consists of the following permitted emission units and pollution control devices:

(a) One (1) sandblast wheelabrator, identified as PL 104, with a maximum capacity of one hundred (100) pounds per hour, using a baghouse to control emissions of particulate matter, and exhausting inside the building.

(b) One (1) spinblast wheelabrator, identified as PL-101, with a maximum capacity of twenty-one hundred (2,100) pounds per hour, using a mpf cartridge collector to control emissions of particulate matter, and exhausting inside the building.

(c) One (1) tumblast wheelabrator, identified as PL-100, with a maximum capacity of six hundred and sixty (660) pounds per hour, using a baghouse to control particulate matter, and exhausting inside the building.

(d) One (1) tumblast wheelabrator, identified as PL-118, with a maximum capacity of six hundred and sixty (660) pounds per hour, using a baghouse to control emissions of particulate matter, and exhausting inside the building.

(e) One (1) MIG welding station, identified as PL-119, with a maximum wire consumption of 0.02 pounds per day, and exhausting inside the building.

(f) Degreasing operations consisting of:

(1) Handwipe operations using a maximum of 1,080 gallons of degreasing solvent per year;

(2) Eight (8) cold cleaner degreaser dip tanks (identified as PL-103, PL-111, PL-112, PL-113, PL-114, PL-115, PL-116, and PL-117); and

(3) Two (2) vibratory degreaser tanks (identified as PL-102 and PL-120).

(g) One (1) bake-off oven, identified as PL-110, with a maximum capacity of one-half (0.5) million British thermal units (MMBtu) per hour, exhausting through one (1) stack identified as S-9.

(h) One (1) paint booth, identified as PB-1, equipped with one (1) HVLP spray guns, for metal heavy duty truck parts, with a maximum capacity of 18.75 transmission units per hour, using media air filters for overspray control and exhausting at one (1) stack, identified as S-13.

(i) One (1) natural gas-fired Proceco aqueous core washer, identified as PL-106, using only water and detergents, with a maximum heat input capacity of 900,000 Btu per hour.

(j) One (1) natural gas-fired Mart aqueous parts washer, identified as PL-105, using only water and detergents, with a maximum heat input capacity of 500,000 Btu per hour.

(k) One (1) natural gas-fired Mart aqueous tornado parts washer, identified as PL-107, using only water and detergents, with a maximum heat input capacity of 500,000 Btu per hour.

(l) One (1) natural gas-fired Hotsy aqueous parts washer, identified as PL-108, using only water and detergents, with a maximum heat input capacity of 500,000 Btu per hour.

(m) One (1) natural gas-fired New Wash aqueous clutch washer, identified as PL-109, using only water and detergents, with a maximum heat input capacity of 500,000 Btu per hour.

Unpermitted Emission Units and Pollution Control Equipment

There are no unpermitted facilities operating at this source during this review process.

Existing Approvals

The source has been operating under previous approvals including, but not limited to, the following:

(a) SSOA 063-10403-00046, issued on January 12, 1999;

(b) MSOP 063-11118-00046, issued on October 9, 1999; and

(c) NOC 063-12519-00046 to MSOP 063-11118-0046, issued on September 2000.

All conditions from previous approvals were incorporated into this permit except the following:

SSOA 063-10403-00046, issued on January 12, 1999.

Conditions:

Section A : Surface Coating or Graphic Arts Operation [326 IAC 2-9-3]

(a) The combined total amount of volatile organic compounds (VOC) and hazardous air pollutants (HAP) delivered to the surface coating operation at the source shall not exceed fifteen (15) pounds per day.

(b) The source shall keep the following records of the surface coating operation:

(1) the number of gallons of each solvent containing material used;

(2) the VOC and HAP content (pounds per gallon as supplied) of each solvent containing material used;

(3) material safety data sheets (MSDS) for all VOC and HAP containing material used;

(4) a monthly summation of VOC and HAP usage; and

(5) purchase orders and invoices for each solvent containing material used.

These records shall be kept for a minimum period of five (5) years, and made available upon request of the Office of Air Management (OAM).

(c) Particulate matter emissions shall be controlled by a dry filter system or an equivalent control device. The source shall operate the particulate control device at all times the surface coating operation is in operation in accordance with the manufacturer's specifications. A source shall be considered in compliance with this requirement provided the overspray is not visibly detectable at the exhaust or accumulated on the rooftops or on the ground.

(d) Include with the annual notice required in Condition 1 of the General Requirements Section, an inventory listing of the monthly volatile organic compound (VOC) and hazardous air pollutant (HAP) totals, and the total VOC and HAP emissions for the previous twelve (12) months.

Reason not incorporated: The construction of the new dip coating booth will increase the emissions of VOCs from the two surface coating operations to greater than fifteen (15) pounds per day. Consequently, the source will no longer be able to comply with 326 IAC 2-9-3 (Surfacing Coating or Graphic Arts Operation).

Conditions:

Source Specific Operating Agreement for Degreasing Operation: [326 IAC 2-9-12]

The total amount of volatile organic compounds (VOC) and hazardous air pollutants (HAP) delivered to the degreasing operation at the source, less the amount of VOC and HAP quantified by manifest as having been shipped off-site, on an annual rolling average basis, shall be limited as follows:

(a) the total amount of any single HAP from the degreasing operation shall not exceed eight hundred thirty-three (833) pounds per month,

(b) the total amount of any combination of HAP from the degreasing operation shall not exceed one (1) ton per month,

(c) the total amount of VOC from degreasing operations shall not exceed one (1) ton per month, and

The source shall keep the following records from the degreasing operation:

(a) purchase records for all degreasing solvents,

(b) material safety data sheets (MSDS) for all degreasing solvents,

(c) the amount of waste degreasing solvent manifested off-site, and

(d) a monthly summation of VOC and HAP emissions for all degreasing solvents.

These records shall be kept for a minimum period of five (5) years, and made available upon request of the Office of Air Quality (OAQ).

Reason not incorporated: Due to changes in the source's operation, the source has elected to comply with the applicable rules for degreasing operations rather than comply with the requirements of this SSOA.

Conditions:

Source Specific Operating Agreement for External Combustion Operation: [326 IAC 2-9-13]

(a) The visible emissions from the external combustion unit shall not exceed twenty percent (20%) opacity in twenty-four (24) consecutive readings in a six (6) minute period. The opacity shall be determined using 40 CFR 60, Appendix A, Method 9.

(b) The fuel usage for the units listed in this Source Specific Operating Agreement (SSOA) shall be limited to less than one thousand six hundred million cubic feet (1600 MMcf) of natural gas per year, based on a straight twelve (12) month total.

(c) The source shall keep the following records from the external combustion unit:

(1) the hours operated for each external combustion unit approved under this Source Specific Operating Agreement (SSOA),
(2) records of the annual fuel usage for each external combustion unit approved under this SSOA, and
(3) records of all routine maintenance conducted on the external combustion units approved under this SSOA.

These records shall be kept for a minimum period of five (5) years, and made available upon request of the Office of Air Quality (OAQ).

Reason not incorporated: Due to changes in the source's operation, the source has elected to comply with all applicable rules for their external combustion units rather than comply with the requirements of this SSOA.

Justification for Permit Revision

This permit revision is being performed pursuant to 326 IAC 2-6.1-6(i)(B), which states that a Significant Permit Revision is required for any modification to the source that results in the source needing to obtain a FESOP under 326 IAC 2-8 or a part 70 permit under 326 IAC 2-7.

Enforcement Issue

There are no enforcement actions pending.

Stack Summary

Stack ID	Operation	Height (feet)	Diameter (feet)	Flow Rate (acfm)	Temperature (^{0}F)
PL-121A	Dip Tank Exhaust	40	1	1500	Ambient
PL-121B	Dryoff Oven Exhaust	40	1.25	2400	120

Recommendation

The staff recommends to the Commissioner that the construction and operation be approved. This recommendation is based on the following facts and conditions:

Unless otherwise stated, information used in this review was derived from the application and additional information submitted by the applicant.

An application for the purposes of this review was received on February 19, 2001 with additional information received on March 8, 2001.

Emission Calculations

See Appendix A of this document for detailed emissions calculations (pages 1 through 12.)

Potential To Emit of Source Before Controls

Pursuant to 326 IAC 2-1.1-1(16), Potential to Emit is defined as "the maximum capacity of a stationary source or emissions unit to emit any air pollutant under its physical and operational design. Any physical or operational limitation on the capacity of a source to emit an air pollutant, including air pollution control equipment and restrictions on hours of operation or type or amount of material combusted, stored, or processed shall be treated as part of its design if the limitation is enforceable by the U. S. EPA, the department, or the appropriate local air pollution control agency."

Pollutant	Potential To Emit (tons/year)
PM	51.4
PM-10	51.4
SO_2	0.01
VOC	46.7
CO	1.58
NO_x	1.88

Note: Includes all emissions from this source.

(a) The potential to emit (as defined in 326 IAC 2-7-1(29)) criteria air pollutants is less than 100 tons per year. Therefore, the source is not subject to the provisions of 326 IAC 2-7.

(b) Fugitive Emissions
Since this type of operation is not one of the twenty-eight (28) listed source categories under 326 IAC 2-2 and since there are no applicable New Source Performance Standards

that were in effect on August 7, 1980, the fugitive particulate matter (PM) and volatile organic compound (VOC) emissions are not counted toward determination of PSD and Emission Offset applicability.

Potential to Emit of Proposed Modification

PTE from the proposed modifications before controls (based on 8,760 hours of operation per year at rated capacity):

Pollutant	PM (ton/yr)	PM10 (ton/yr)	SO_2 (ton/yr)	VOC (ton/yr)	CO (ton/yr)	NO_x (ton/yr)	HAPs (ton/yr)
Tumblast Units (PL-123, PL-124, and PL-125)	26.55	26.55	0	0	0	0	0
Dryer (PL-121B)	0.017	0.017	0.001	0.012	0.184	0.219	Negligible
Aqueous Washer (PL-122)	0.03	0.03	0.002	0.022	0.331	0.394	Negligible
Dip Coating Booth	0	0	0	27.1	0	0	0
Spray Gun	2.76	2.76	0	4.47	0	0	Negligible
Totals	29.4	29.4	0.003	31.6	0.515	0.613	Negligible

County Attainment Status

The source is located in Hendricks County.

Pollutant	Status
PM-10	Attainment
SO_2	Attainment
NO_2	Attainment
Ozone	Attainment
CO	Attainment
Lead	Attainment

(a) Volatile organic compounds (VOC) and oxides of nitrogen (NOx) are precursors for the formation of ozone. Therefore, VOC emissions are considered when evaluating the rule applicability relating to the ozone standards. Hendricks County has been designated as attainment or unclassifiable for ozone. Therefore, VOC and NOx emissions were reviewed pursuant to the requirements for Prevention of Significant Deterioration (PSD), 326 IAC 2-2 and 40 CFR 52.21.

(b) Hendricks County has been classified as attainment or unclassifiable for PM, SO_2, CO, and lead. Therefore, these emissions were reviewed pursuant to the requirements for Prevention of Significant Deterioration (PSD), 326 IAC 2-2 and 40 CFR 52.21.

(c) Fugitive Emissions
Since this type of operation is not one of the 28 listed source categories under 326 IAC 2-2, 40 CFR 52.21, or 326 IAC 2-3 and since there are no applicable New Source Performance Standards that were in effect on August 7, 1980, the fugitive particulate matter (PM) and volatile organic compound (VOC) emissions are not counted toward determination of PSD and Emission Offset applicability.

Source Status

Existing Source PSD, Part 70 or FESOP Definition (emissions after controls, based on 8,760 hours of operation per year at rated capacity and/ or as otherwise limited):

Pollutant	Emissions (ton/yr)
PM	21.9
PM10	21.9
SO_2	0.01
VOC	46.7
CO	1.58
NO_x	1.88

Note: Emissions for existing equipment only.

(a) This existing source is **not** a major stationary source because no attainment regulated pollutant is emitted at a rate of 250 tons per year or more, and it is not in one of the 28 listed source categories.

(b) These emissions were based on data from the TSD for MSOP 063-11118-00046 issued on October 10, 1999 and updated information provided by the source on March 8, 2001 and June 13, 2001.

Proposed Modification

PTE from the proposed modification (based on 8,760 hours of operation per year at rated capacity including enforceable emission control and production limit, where applicable):

Pollutant	PM (ton/yr)	PM10 (ton/yr)	SO_2 (ton/yr)	VOC (ton/yr)	CO (ton/yr)	NO_x (ton/yr)
Proposed Modification	0.345	0.345	0.003	31.6	0.515	0.613
PSD Threshold Level	250	250	250	250	250	250

This modification to an existing minor stationary source is not major because the emission increase is less than the PSD significant levels. Therefore, pursuant to 326 IAC 2-2, and 40 CFR 52.21, the PSD requirements do not apply.

Part 70 Permit Determination

326 IAC 2-7 (Part 70 Permit Program)

This existing source, including the emissions from this permit CP-063-13938-00046 is still not subject to the Part 70 Permit requirements because the potential to emit (PTE) of:

(a) a criteria pollutant is less than 100 tons per year,

(b) a single hazardous air pollutant (HAP) is less than 10 tons per year, and

(c) any combination of HAPs is less than 25 tons/year.

This status is based on all air approvals issued to the source.

Federal Rule Applicability

(a) There are no New Source Performance Standards (NSPS) (326 IAC 12 and 40 CFR Part 60) applicable to this source.

(b) There are no National Emission Standards for Hazardous Air Pollutants (NESHAPs) (326 IAC 14 and 40 CFR Part 63) applicable to this source.

(c) This source is not subject to the National Emission Standards for Hazardous Air Pollutants (NESHAP) 40 CFR 63, Subpart T (National Emission Standards for Halogenated Solvent Cleaning (326 IAC 14), because this source does not use halogenated solvents.

State Rule Applicability - Entire Source

326 IAC 2-6 (Emission Reporting)

This source is located in Hendricks County and the potential to emit PM_{10}, CO, VOC, NO_x, and SO_2 is less than one hundred (100) tons per year. Therefore, 326 IAC 2-6 does not apply.

326 IAC 5-1 (Visible Emissions Limitations)

Pursuant to 326 IAC 5-1-2 (Opacity Limitations), except as provided in 326 IAC 5-1-3 (Temporary Exemptions), opacity shall meet the following, unless otherwise stated in this permit:

(a) Opacity shall not exceed an average of forty percent (40%) any one (1) six (6) minute averaging period as determined in 326 IAC 5-1-4.

(b) Opacity shall not exceed sixty percent (60%) for more than a cumulative total of fifteen (15) minutes (sixty (60) readings) as measured according to 40 CFR 60, Appendix A, Method 9 or fifteen (15) one (1) minute nonoverlapping integrated averages for a continuous opacity monitor) in a six (6) hour period.

State Rule Applicability - Individual Facilities

326 IAC 2-4.1 (Major Sources of Hazardous Air Pollutants (HAP))

The dip coating booth identified as PL-121A) and the modified spray paint booth (identified as PB-1) will emit less than 10 tons per year of a single HAP or 25 tons per year of a combination of HAPs. Therefore, 326 IAC 2-4.1 does not apply. Any change or modification which may increase the potential emissions of HAPs above these thresholds must be approved by IDEM, OAQ before any such change can be made.

326 IAC 6-3-2 (Process Operations)

Pursuant to 326 IAC 6-3, the particulate matter (PM) from the shot blasters shall not exceed 8.07 pounds per year. This limit was calculated as follows:

Interpolation of the data for the process weight rate up to sixty thousand (60,000) pounds per hour shall be accomplished by use of the equation:

$E = 4.10\ P^{0.67}$ where E = rate of emission in pounds per hour and
P = process weight rate in tons per hour

The baghouses and mpf cartridge collector shall be in operation at all times the shot blast machines are is in operation, in order to comply with this limit.

326 IAC 8-2-9 (Miscellaneous Metal Coating)

Pursuant to 326 IAC 8-2-9 (Miscellaneous Metal Coating Operations), the volatile organic compound (VOC) content of coating applied in the dip coating booth and spray booth shall be limited to 3.5 pounds of VOCs per gallon of coating less water, for forced warm air dried coatings.

Solvent sprayed from application equipment during cleanup or color changes shall be directed into containers. Such containers shall be closed as soon as such solvent spraying is complete, and the waste solvent shall be disposed of in such a manner that evaporation is minimized.

Based on the MSDS submitted by the source and calculations made, the spray paint booth and dip coating booth are in compliance with this requirement. The source will use surface coatings that comply with the 3.5 pounds per gallon limit in the dip coating booth. For the spray paint booth, the source will use the volume weighted averaging method in 326 IAC 8-1-2(a) (7) to comply with this rule.

326 IAC 8-1-6 (New Facilities: General Reduction Requirements)

The new paint booth (PL-121A) is subject to 326 IAC 8-2-9 (Miscellaneous Metal Coating Operations) therefore 326 IAC 8-1-6 is not applicable.

326 IAC 6-3-2(c) (Process Operations)

The PM from the spray booth (identified as PB-1) shall not exceed the pound per hour emission rate established as E in the following formula:

Interpolation of the data for the process weight rate up to sixty thousand (60,000) pounds per hour shall be accomplished by use of the equation:

$E = 4.10\ P^{0.67}$ where E = rate of emission in pounds per hour; and
P = process weight rate in tons per hour

The dry filters for PM control shall be in operation at all times when the spray booth (identified as PB-1) is in operation.

326 IAC 4-2 (Incinerators)

Pursuant to 326 IAC 4-2, the bake-off oven shall:

(a) Consist of primary and secondary chambers or the equivalent;

(b) Be equipped with a primary burner unless burning wood products;

(c) Comply with 326 IAC 5-1 and 326 IAC 2;

(d) Be maintained properly as specified by the manufacturer and approved by the commissioner;

(e) Be operated according to the manufacturer's recommendations and only burn waste approved by the commissioner;

(f) Comply with other state and/or local rules or ordinances regarding installation and operation of incinerators;

(g) Be operated so that emissions of hazardous material including but not limited to viable pathogenic bacteria, dangerous chemicals or gases, or noxious odors are prevented;

(h) Not emit particulate matter in excess of five-tenths (0.5) pounds of particulate matter per one thousand (1,000) pounds of dry exhaust gas at standard condition corrected to fifty percent (50%) excess air; and

(i) Not create a nuisance or fire hazard.

If any of the above result, the burning shall be terminated immediately.

326 IAC 2-9 (Source Specific Operating Agreement Program)

326 IAC 2-9-3 (Surface Coating or Graphic Arts Operation) is not applicable to the surface coating operations because the source cannot comply with the fifteen (15) pounds per day VOC limitation. Therefore, the operating conditions contained in SSOA 063-10403-00046, issued January 12, 1999, are no longer applicable to this source.

326 IAC 8-3-2 (Cold Cleaner Operations)

The degreaser operations are subject to the requirements of 326 IAC 8-3-2 (Cold Cleaner Operations), because the degreaser units were constructed after 1990.

326 IAC 8-3-5 (Cold Cleaner Degreaser Operation and Control)

The degreaser operations are subject to the requirements of 326 IAC 8-3-5 (Cold Cleaner Degreaser Operation and Control), because the degreaser units were constructed after 1990.

326 IAC 8-3 (Organic Solvent Degreasing Operations)

326 IAC 8-3 is not applicable to the aqueous washers because no organic solvents are used in the washers.

Proposed Changes

A.2 Emissions units and Pollution Control Equipment Summary

This stationary source is approved to construct and operate the following emissions units and pollution control devices:

(a) One (1) sandblast wheelabrator, identified as PL-104, with a maximum capacity of one hundred (100) pounds per hour, using a baghouse as control, and exhausting inside the building.

(b) One (1) spinblast wheelabrator, identified as PL-101, with a maximum capacity of twenty-one hundred (2,100) pounds per hour, using a mpf cartridge collector as control, and exhausting inside the building.

(c) One (1) tumblast wheelabrator, identified as PL-100, with a maximum capacity of six hundred sixty (660) pounds per hour, using a baghouse as control, and exhausting inside the building.

(d) One (1) tumblast wheelabrator, identified as PL-118, with a maximum capacity of six hundred and sixty (660) pounds per hour, using a baghouse as control, and exhausting inside the building.

(e) One (1) MIG welding station, identified as PL-119, with a maximum wire consumption of 0.02 pounds per day, and exhausting inside the building.

(f) Degreasing operations consisting of:

(1) Handwipe operations using a maximum of 1,080 gallons of degreasing solvent per year;

(2) Eight (8) cold cleaner degreaser dip tanks (identified as PL-103, PL-111, PL-112, PL-113, PL-114, PL-115, PL-116, and PL-117); and

(3) Two (2) vibratory degreaser tanks (identified as PL-102 and PL-120).

(g) One (1) bake-off oven, identified as PL-110, with a maximum capacity of one-half (0.5) million British thermal units (MMBtu) per hour, exhausting through one (1) stack identified as S9.

(h) Three (3) tumblast finishing units, identified as PL-123, PL-124, and PL-125, each with a maximum capacity of 660 pounds per hour. Each tumblast unit is equipped with a baghouse to control emissions of particulate matter.

(i) One (1) natural gas-fired dryer, identified as PL-121B, with a maximum capacity of 500,000 Btu per hour.

(j) One (1) aqueous washer, identified as PL-122, using only water and detergents and employing two natural gas-fired tube heaters with a maximum combined capacity of 900,000 Btu per hour.

(k) One (1) dip coating booth, identified as PL-121A, with a maximum capacity of 750 metal brake shoes per hour, and emissions exhausted through stack PL-121A.

(l) One (1) spray paint booth (identified as PB-1) equipped with two (2) HVLP spray guns, for metal heavy duty truck parts, with a maximum capacity of forty (40) transmission units per hour, dry filters for overspray control and exhausting at stack S-13.

(m) One (1) natural gas-fired Proceco aqueous core washer, identified as PL-106, using only water and detergents, with a maximum heat input capacity of 900,000 Btu per hour.

(n) One (1) natural gas-fired Mart aqueous parts washer, identified as PL-105, using only water and detergents, with a maximum heat input capacity of 500,000 Btu per hour.

(o) One (1) natural gas-fired Mart aqueous tornado parts washer, identified as PL-107, using only water and detergents, with a maximum heat input capacity of 500,000 Btu per hour.

(p) One (1) natural gas-fired Hotsy aqueous parts washer, identified as PL-108, using only water and detergents, with a maximum heat input capacity of 500,000 Btu per hour.

(q) One (1) natural gas-fired New Wash aqueous clutch washer, identified as PL-109, using only water and detergents, with a maximum heat input capacity of 500,000 Btu per hour.

B.9 Permit Term [326 IAC 2-6.1-7]

This permit is issued for a fixed term of five (5) years from the original date, as determined in accordance with IC 4-21.5-3-5(f) and IC 13-15-5.3. Subsequent revisions, modifications or amendments of this permit do not affect the expiration.

C.2 Preventive Maintenance Plan [326 IAC 1-6-3]

(a) If required by specific condition(s) in Section D of this permit, the Permittee shall prepare and maintain Preventive Maintenance Plans (PMP) ~~within ninety (90) days~~ after ~~issuance of this permit,~~ including the following information on each emissions unit:

(1) Identification of the individual(s) responsible for inspecting, maintaining, and repairing emission control devices;

(2) A description of the items or conditions that will be inspected and the inspection schedule for said items or conditions;

(3) Identification and quantification of the replacement parts that will be maintained in inventory for quick replacement.

~~If due to circumstances beyond its control, the PMP cannot be prepared and maintained within the above time frame, the Permittee may extend the date an additional ninety (90) days provided the Permittee notifies:~~

~~Indiana Department of Environmental Management~~
~~Compliance Branch, Office of Air Quality~~
~~100 North Senate Avenue, P.O. Box 6015~~
~~Indianapolis, Indiana 46206-6015~~

(b) The Permittee shall implement the Preventive Maintenance Plans as necessary to ensure that lack of proper maintenance does not cause or contribute to a violation of any limitation on emissions or potential to emit.

(c) PMP's shall be submitted to IDEM, OAQ, upon request and shall be subject to review and approval by IDEM, OAQ. **IDEM, OAQ may require the Permittee to revise its Preventive Maintenance Plan whenever lack of proper Maintenance causes or contributes to any violation.**

~~C.15 Annual Emission Statement [326 IAC 2-6]~~

~~(a) The Permittee shall submit an annual emission statement certified pursuant to the requirements of 326 IAC 2-6, that must be received by July 1 of each year and must comply with the minimum requirements specified in 326 IAC 2-6-4. The annual emission statement shall meet the following requirements:~~

~~(1) Indicate actual emissions of criteria pollutants from the source, in compliance with 326 IAC 2-6 (Emission Reporting);~~

~~(2) Indicate actual emissions of other regulated pollutants from the source, for purposes of Part 70 fee assessment.~~

~~(b) The annual emission statement covers the twelve (12) consecutive month time period starting January 1 and ending December 31. The annual emission statement must be submitted to:~~

~~Indiana Department of Environmental Management~~
~~Technical Support and Modeling Section, Office of Air Quality~~
~~100 North Senate Avenue, P. O. Box 6015~~
~~Indianapolis, Indiana 46206-6015~~

~~(c) The annual emission statement required by this permit shall be considered timely if the date postmarked on the envelope or certified mail receipt, or affixed by the shipper on the private shipping receipt, is on or before the date it is due. If the document is submitted by any other means, it shall be considered timely if received by IDEM, OAQ, on or before the date it is due.~~

~~The submittal by the Permittee does require the certification by the "authorized individual" as defined by 326 IAC 2-1.1-1.~~

C.1~~6~~**5** Monitoring Data Availability [326 IAC 2-6.1-2] [IC 13-14-1-13]

(a) With the exception of performance tests conducted in accordance with Section C-Performance Testing, all observations, sampling, maintenance procedures, and record keeping, required as a condition of this permit shall be performed at all times the equipment is operating at normal representative conditions.

(b) As an alternative to the observations, sampling, maintenance procedures, and record keeping of subsection (a) above, when the equipment listed in Section D of this permit is not operating, the Permittee shall either record the fact that the equipment is shut down or perform the observations, sampling, maintenance procedures, and record keeping that would otherwise be required by this permit.

(c) If the equipment is operating but abnormal conditions prevail, additional observations and sampling should be taken with a record made of the nature of the abnormality.

(d) If for reasons beyond its control, the operator fails to make required observations, sampling, maintenance procedures, or record keeping, reasons for this must be recorded.

(e) At its discretion, IDEM may excuse such failure providing adequate justification is documented and such failures do not exceed five percent (5%) of the operating time in any quarter.

(f) Temporary, unscheduled unavailability of staff qualified to perform the required observations, sampling, maintenance procedures, or record keeping shall be considered a valid reason for failure to perform the requirements stated in (a) above.

C.16**7** General Record Keeping Requirements [326 IAC 2-6.1-2]

(a) Records of all required monitoring data and support information shall be retained for a period of at least five (5) years from the date of monitoring sample, measurement, report, or application. These records shall be kept at the source location for a minimum of three (3) years and available upon the request of an IDEM, OAQ, representative. The records may be stored elsewhere for the remaining two (2) years as long as they are available upon request. If the Commissioner makes a written request for records to the Permittee, the Permittee shall furnish the records to the Commissioner within a reasonable time.

(b) Records of required monitoring information shall include, where applicable:

(1) The date, place, and time of sampling or measurements;

(2) The dates analyses were performed;

(3) The company or entity performing the analyses;

(4) The analytic techniques or methods used;

(5) The results of such analyses; and

(6) The operating conditions existing at the time of sampling or measurement.

(c) Support information shall include, where applicable:

(1) Copies of all reports required by this permit;

(2) All original strip chart recordings for continuous monitoring instrumentation;

(3) All calibration and maintenance records;

(4) Records of preventive maintenance shall be sufficient to demonstrate that improper maintenance did not cause or contribute to a violation of any limitation on emissions or potential to emit. To be relied upon subsequent to any such violation, these records may include, but are not limited to: work orders, parts inventories, and operator's standard operating procedures. Records of response steps taken shall indicate whether the response steps were performed in accordance with the Compliance Response Plan required by Section C - Compliance Monitoring Plan - Failure to take Response Steps, of this permit, and whether a deviation from a permit condition was reported. All records shall briefly describe what maintenance and response steps were taken and indicate who performed the tasks.

(d) All record keeping requirements not already legally required shall be implemented within ninety (90) days of permit issuance.

~~C.18 General Reporting Requirements [326 IAC 2-1.1-11] [326 IAC 2-6.1-2] [IC 13-14-1-13]~~

~~(a) To affirm that the source has met all the compliance monitoring requirements stated in this permit the source shall submit a quarterly Compliance Monitoring Report. Any deviation from the requirements and the date(s) of each deviation must be reported. The Compliance Monitoring Report shall include the certification by the "authorized individual" as defined by 326 IAC 2-1.1-1(1).~~

~~(b) The report required in (a) of this condition and reports required by conditions in Section D of this permit shall be submitted to:~~

~~Indiana Department of Environmental Management~~
~~Compliance Data Section, Office of Air Quality~~
~~100 North Senate Avenue, P. O. Box 6015~~
~~Indianapolis, Indiana 46206-6015~~

~~(c) Unless otherwise specified in this permit, any notice, report, or other submission required by this permit shall be considered timely if the date postmarked on the envelope or certified mail receipt, or affixed by the shipper on the private shipping receipt, is on or before the date it is due. If the document is submitted by any other means, it shall be considered timely if received by IDEM, OAQ, on or before the date it is due.~~

~~(d) Unless otherwise specified in this permit, any semi-annual report shall be submitted within thirty (30) days of the end of the reporting period. The report does not require the certification by the "authorized individual" as defined by 326 IAC 2-1.1-1(1).~~

~~(e) All instances of deviations as described in Section B - Deviations from Permit Requirements Conditions must be clearly identified in such reports. The Emergency/Deviation Occurrence Report does not require the certification by the "authorized individual" as defined by 326 IAC 2-1.1-1(1).~~

~~(f) Any corrective actions or response steps taken as a result of each deviation must be clearly identified in such reports.~~

~~(g) The first report shall cover the period commencing on the date of issuance of this permit and ending on the last day of the reporting period.~~

C.18 General Reporting Requirements [326 IAC 2-1.1-11] [326 IAC 2-6.1-2] [IC 13-14-1-13]

(a) Reports required by conditions in Section D of this permit shall be submitted to:

Indiana Department of Environmental Management
Compliance Data Section, Office of Air Quality
100 North Senate Avenue, P. O. Box 6015
Indianapolis, Indiana 46206-6015

(b) Unless otherwise specified in this permit, any notice, report, or other submission required by this permit shall be considered timely if the date postmarked on the envelope or certified mail receipt, or affixed by the shipper on the private shipping receipt, is on or before the date it is due. If the document is submitted by any other means, it shall be considered timely if received by IDEM, OAQ, on or before the date it is due.

(c) The first report shall cover the period commencing on the date of issuance of this permit and ending on the last day of the reporting period.

C.19 Annual Notification [326 IAC 2-6.1-5(a)(5)]

(a) Annual notification shall be submitted to the Office of Air Quality stating whether or not the source is in operation and in compliance with the terms and conditions contained in this permit.

(b) Noncompliance with any condition must be specifically identified. If there are any permit conditions or requirements for which the source is not in compliance at any time during the year, the Permittee must provide a narrative description of how the source did or will achieve compliance and the date compliance was, or will be, achieved. The notification must be signed by an authorized individual.

(c) The annual notice shall cover the time period from January 1 to December 31 of the previous year, and shall be submitted in the format attached no later than March 1 of each year to:

Compliance Data Section, Office of Air Quality
Indiana Department of Environmental Management
100 North Senate Avenue, P.O. Box 6015
Indianapolis, IN 46206-6015

(d) The notification shall be considered timely if the date postmarked on the envelope or certified mail receipt, or affixed by the shipper on the private shipping receipt, is on or before the date it is due. If the document is submitted by any other means, it shall be considered timely if received by IDEM, OAQ, on or before the date it is due.

SECTION D.1 EMISSIONS UNIT OPERATION CONDITIONS

Emissions unit Description

(a) One (1) sandblast wheelabrator, identified as PL-104, with a maximum capacity of one hundred (100) pounds per hour, using a baghouse as control, and exhausting inside the building.

(b) One (1) spinblast wheelabrator, identified as PL-101, with a maximum capacity of twenty-one hundred (2,100) pounds per hour, using a mpf cartridge collector as control, and exhausting inside the building.

(c) One (1) tumblast wheelabrator, identified as PL-100, with a maximum capacity of six hundred (660) pounds per hour, using a baghouse as control, and exhausting inside the building.

(d) One (1) tumblast wheelabrator, identified as PL-118, with a maximum capacity of six hundred and sixty (660) pounds per hour, using a baghouse as control, and exhausting inside the building.

(h) Three (3) tumblast finishing units, identified as PL-123, PL-124, and PL-125, each with a maximum capacity of 660 pounds per hour. Each tumblast unit is equipped with a baghouse to control emissions of particulate matter.

Emission Limitations and Standards

D.1.1 Particulate Matter (PM) [326 IAC 6-3]

Pursuant to 326 IAC 6-3 (Process Operations), the allowable PM emission rate from the shotblasting facilities shall not exceed ~~5.99~~ **8.07** pounds per hour.

The pounds per hour limitation was calculated with the following equation:

Interpolation ~~and extrapolation~~ of the data for the process weight rate up to 60,000 pounds per hour shall be accomplished by use of the equation:

$E = 4.10\ P^{0.67}$ where E = rate of emission in pounds per hour; and

P = process weight rate in tons per hour

D.1.4 Baghouse Inspections

An inspection shall be performed each calender quarter of all bags controlling the ~~woodworking~~ **blast cleaning** operation when venting to the atmosphere. A baghouse inspection shall be performed within three months of redirecting vents to the atmosphere and every three months thereafter. Inspections are optional when venting to the indoors. All defective bags shall be replaced.

D.1.5 Broken or Failed Bag Detection

In the event that bag failure has been observed:

(a) The affected compartments will be shut down immediately until the failed units have been repaired or replaced. Within eight (8) hours of the determination of failure, response steps according to the timetable described in the Compliance Response Plan shall be initiated. For any failure with corresponding response steps and timetable not described in the Compliance Response Plan, response steps shall be devised within eight (8) hours of discovery of the failure and shall include a timetable for completion. Operations may continue only if the event qualifies as an emergency and the Permittee

satisfies the requirements of the emergency provisions of this permit (Section ~~B~~ **C** - ~~Emergency~~ **Malfunction** Provisions).

(b) For single compartment baghouses, failed units and the associated process will be shut down immediately until the failed units have been repaired or replaced. Operations may continue only if the event qualifies as an emergency and the Permittee satisfies the requirements of the emergency provisions of this permit (Section ~~B~~ **C** - ~~Emergency~~ **Malfunction** Provisions).

SECTION D.2 EMISSIONS UNIT OPERATION CONDITIONS

Emissions unit Description

~~(a) Eight cold cleaning facilities designated as PL-103, PL-111 through PL-117, with a maximum solvent usage of 0.17 gallons per day each;~~

~~(b) Two (2) vibratory solvent cleaners designated as PL-102 and PL-120, with a maximum solvent usage of 1.33 gallons per day each.~~

(f) Degreasing operations consisting of:

(1) Handwipe operations using a maximum of 1,080 gallons of degreasing solvent per year;

(2) Eight (8) cold cleaner degreaser dip tanks (identified as PL-103, PL-111, PL-112, PL-113, PL-114, PL-115, PL-116, and PL-117); and

(3) Two (2) vibratory degreaser tanks (identified as PL-102 and PL-120).

(The information describing the process contained in this facility description box is descriptive information and does not constitute enforceable conditions.)

Emission Limitations and Standards

D.2.1 Volatile Organic Compounds (VOC)

The potential to emit volatile organic compounds (VOC) from the spray paint booth, dip coating operation and degreasing operations is less than one hundred (100) tons per year. Therefore, 326 IAC 2-7 does not apply. Any change or modification which increases the potential emissions to equal to or greater than one hundred (100) tons per year must be approved by IDEM, OAQ before any change is made.

D.2.2 Hazardous Air Pollutants (HAPs)

The potential to emit hazardous air pollutants (HAPs) from the spray paint booth, dip coating operations, and degreasing operations is less than ten (10) ten tons per year of a single HAP and less than twenty-five (25) tons per year. Therefore, 326 IAC 2-4-1 will not apply. Any change or modification which may increase to potential emissions to ten (10) tons per year of a single HAP or twenty-five (25) tons per year of any combination of HAPs must be approved by IDEM, OAQ before any such change may occur.

D.2.3 Volatile Organic Compounds (VOC)

Pursuant to 326 IAC 8-3-2 (Cold Cleaner Operations), for cold cleaning operations constructed after January 1, 1980, the owner or operator shall:

(a) Equip the cleaner with a cover;

(b) Equip the cleaner with a facility for draining cleaned parts;

(c) Close the degreaser cover whenever parts are not being handled in the cleaner;

(d) Drain cleaned parts for at least fifteen (15) seconds or until dripping ceases;

(e) Provide a permanent, conspicuous label summarizing the operation requirements;

(f) Store waste solvent only in covered containers and not dispose of waste solvent or transfer it to another party, in such a manner that greater than twenty percent (20%) of the waste solvent (by weight) can evaporate into the atmosphere.

D.2.4 Volatile Organic Compounds (VOC)

(a) Pursuant to 326 IAC 8-3-5(a) (Cold Cleaner Degreaser Operation and Control), the owner or operator of a cold cleaner degreaser facility construction of which commenced after July 1, 1990, shall ensure that the following control equipment requirements are met:

(1) Equip the degreaser with a cover. The cover must be designed so that it can be easily operated with one (1) hand if:

(A) The solvent volatility is greater than two (2) kilopascals (fifteen (15) millimeters of mercury or three-tenths (0.3) pounds per square inch) measured at thirty-eight degrees Celsius (38^{O}C) (one hundred degrees Fahrenheit (100^{O}F));

(B) The solvent is agitated; or

(C) The solvent is heated.

(2) Equip the degreaser with a facility for draining cleaned articles. If the solvent volatility is greater than four and three-tenths (4.3) kilopascals (thirty-two (32) millimeters of mercury or six-tenths (0.6) pounds per square inch) measured at thirty-eight degrees Celsius (38^{O}C) (one hundred degrees Fahrenheit (100^{O}F)), then the drainage facility must be internal such that articles are enclosed under the cover while draining. The drainage facility may be external for applications where an internal type cannot fit into the cleaning system.

(3) Provide a permanent, conspicuous label which lists the operating requirements outlined in subsection (b).

(4) The solvent spray, if used, must be a solid, fluid stream and shall be applied at a pressure which does not cause excessive splashing.

(5) Equip the degreaser with one (1) of the following control devices if the solvent volatility is greater than four and three-tenths (4.3) kilopascals (thirty-two (32) millimeters of mercury or six-tenths (0.6) pounds per square inch) measured at thirty-eight degrees Celsius (38^{O}C) (one hundred degrees Fahrenheit (100^{O}F)), or if the solvent is heated to a temperature greater than forty-eight and nine-tenths degrees Celsius (48.9^{O}C) (one hundred twenty degrees Fahrenheit (120^{O}F)):

(A) A freeboard that attains a freeboard ratio of seventy-five hundredths (0.75) or greater.

(B) A water cover when solvent is used is insoluble in, and heavier than, water.

(C) Other systems of demonstrated equivalent control such as a refrigerated chiller of carbon adsorption. Such systems shall be submitted to the U.S. EPA as a SIP revision.

(b) Pursuant to 326 IAC 8-3-5(b) (Cold Cleaner Degreaser Operation and Control), the owner or operator of a cold cleaning facility construction of which commenced after July 1, 1990, shall ensure that the following operating requirements are met:

(1) Close the cover whenever articles are not being handled in the degreaser.

(2) Drain cleaned articles for at least fifteen (15) seconds or until dripping ceases.

(3) Store waste solvent only in covered containers and prohibit the disposal or transfer of waste solvent in any manner in which greater than twenty percent (20%) of the waste solvent by weight could evaporate.

Record Keeping and Reporting Requirements [326 IAC 2-5.1-3(e)(2)] [326 IAC 2-6.1-5(a)(2)]

D.2.5 Record Keeping Requirement

(a) To document compliance with Condition D.2.1 and D.2.2, the Permittee shall maintain records in accordance with (1) through (4) below. Records maintained for (1) through (6) shall be taken monthly and shall be complete and sufficient to establish compliance with the VOC and HAP limits established in Conditions D.2.1 and D.2.2.

(1) The amount and VOC and HAP content of each solvent used in degreasing operations. Records shall include purchase orders, invoices, and material safety data sheets (MSDS) necessary to verify the type and amount of solvent used.

(2) A log of the dates of use;

(3) The total VOC and HAP usage for each month; and

(4) The weight of VOC and HAP emitted for each compliance period.

(b) These records shall be maintained in accordance with Section C - General Record Keeping Requirements.

~~**These equipment/operation are covered by 326 IAC 2-9-12(Degreasing operation)). These requirements are included on pages 22 to 26.**~~

SECTION D.3 EMISSIONS UNIT OPERATION CONDITIONS

Emissions unit Description

(g) One (1) bake-off oven**, identified as PL-110**, with a maximum capacity of one-half (0.5) million British thermal units per hour, exhausting through one (1) stack identified as S9.

(i) One (1) natural gas-fired dryer, identified as PL-121B, with a maximum capacity of 500,000 Btu per hour.

(j) One (1) aqueous washer, identified as PL-122, using only water and detergents and employing two natural gas-fired tube heaters with a maximum combined capacity of 900,000 Btu per hour.

(m) One (1) natural gas-fired Proceco aqueous core washer, identified as PL-106, using only water and detergents, with a maximum heat input capacity of 900,000 Btu per hour.

(n) One (1) natural gas-fired Mart aqueous parts washer, identified as PL-105, using only water and detergents, with a maximum heat input capacity of 500,000 Btu per hour.

(o) One (1) natural gas-fired Mart aqueous tornado parts washer, identified as PL-107, using only water and detergents, with a maximum heat input capacity of 500,000 Btu per hour.

(p) One (1) natural gas-fired Hotsy aqueous parts washer, identified as PL-108, using only water and detergents, with a maximum heat input capacity of 500,000 Btu per hour.

(q) One (1) natural gas-fired New Wash aqueous clutch washer, identified as PL-109, using only water and detergents, with a maximum heat input capacity of 500,000 Btu per hour.

(The information describing the process contained in this facility description box is descriptive information and does not constitute enforceable conditions.)

~~**These equipment/operation are covered by 326 IAC 2-9-12(Degreasing operation)). These requirements are included on pages 22 to 26.**~~

D.3.1 Source Specific Operating Agreement Program: [326 IAC 2-9]

As requested by the Permittee, 326 IAC 2-9-13 (External Combustion) is no longer applicable to the bake-off oven, dryer and aqueous washer. Therefore, the operating conditions contained in SSOA 063-1118-00046 issued on October 9, 1999, are no longer applicable.

D.3.2 Incinerator Requirements [326 IAC 4-2]

Pursuant to 326 IAC 4-2, the bake-off oven shall:

(a) Consist of primary and secondary chambers or the equivalent;

(b) Be equipped with a primary burner unless burning wood products;

(c) Comply with 326 IAC 5-1 and 326 IAC 2;

(d) Be maintained properly as specified by the manufacturer and approved by the commissioner;

(e) Be operated according to the manufacturer's recommendations and only burn waste approved by the commissioner;

(f) Comply with other state and/or local rules or ordinances regarding installation and operation of incinerators;

(g) Be operated so that emissions of hazardous material including but not limited to viable pathogenic bacteria, dangerous chemicals or gases, or noxious odors are prevented;

(h) Not emit particulate matter in excess of five-tenths (0.5) pounds of particulate matter per one thousand (1,000) pounds of dry exhaust gas at standard condition corrected to fifty percent (50%) excess air; and

(i) Not create a nuisance or fire hazard.

If any of the above result, the burning shall be terminated immediately.

SECTION D.4 EMISSIONS UNIT OPERATION CONDITIONS

Emissions unit Description:

(k) One (1) dip coating booth, identified as PL-121A, with a maximum capacity of 750 metal brake shoes per hour, and emissions exhausted through stack PL-121A.

(l) One (1) **spray** paint booth (identified as PB**-1**) equipped with ~~one (1)~~ **two (2)** HVLP spray guns, for metal heavy duty truck parts, with a maximum capacity of ~~18.75~~ **forty (40) transmission units** per hour, ~~using media air~~ **dry** filters for overspray control and exhausting at one (1) stack, identified as ~~stack~~ S13.

(The information describing the process contained in this facility description box is descriptive information and does not constitute enforceable conditions.)

~~**Pursuant to S 063-10403-00046, issued on January 12, 1999, this equipment/operation is covered by 326 IAC 2-9-3 (Surface Coating or Graphic Arts Operation).**~~

Emission Limitations and Standards

D.4.1 Volatile Organic Compound (VOC) [326 IAC 8-2-9]

Pursuant to 326 IAC 8-2-9 (Miscellaneous Metal Coating Operations), the volume weighted average volatile organic compound (VOC) content of coating applied to the metal truck parts shall be limited to 3.5 pounds of VOCs per gallon of coating less water, as applied for any calender day, for forced warm air (less than 90EC or 194 EF) dried coatings.

Solvent sprayed from HVLP application equipment during cleanup or color changes shall be directed into containers. Such containers shall be closed as soon as such solvent spraying is complete, and the waste solvent shall be disposed of in such a manner that evaporation is minimized.

D.4.2 Volatile Organic Compounds (VOC)

The potential to emit volatile organic compounds (VOC) from the spray paint booth, dip coating operation and degreasing operations is less than one hundred (100) tons per year. Therefore, 326 IAC 2-7 does not apply. Any change or modification which increases the

potential emissions to equal to or greater than one hundred (100) tons per year must be approved by IDEM, OAQ before any change is made.

D.4.3 Hazardous Air Pollutants (HAPs)

The potential to emit hazardous air pollutants (HAPs) from the spray paint booth, dip coating operations, and degreasing operations is less than ten (10) ten tons per year of a single HAP and less than twenty-five (25) tons per year. Therefore, 326 IAC 2-7 will not apply. Any change or modification which may increase the potential emissions to ten (10) tons per year of a single HAP or twenty-five (25) tons per year of any combination of HAPs must be approved by IDEM, OAQ before any such change may occur.

~~D.4.2 Hazardous Air Pollutants [326 IAC 2-4-1]~~

~~The potential to emit hazardous air pollutants (HAPs) from the dip coating booth is less than ten (10) ten tons per year of a single HAP and less than twenty-five (25) tons per year. Therefore, 326 IAC 2-4-1 will not apply. Any change or modification which may increase to potential emissions to ten (10) tons per year of a single HAP or twenty-five (25) tons per year of any combination of HAPs must be approved by IDEM, OAQ before any such change may occur.~~

D.4.4 Particulate Matter (PM) [326 IAC 6-3-2(c)]

The PM from the spray booth (identified as PB-1) shall not exceed the pound per hour emission rate established as E in the following formula:

Interpolation of the data for the process weight rate up to sixty thousand (60,000) pounds per hour shall be accomplished by use of the equation:

$$E = 4.10\ P^{0.67}$$

where E = rate of emission in pounds per hour; and
P = process weight rate in tons per hour

D.4.5 Source Specific Operating Agreement Program [326 IAC 2-9]

326 IAC 2-9-3 (Surface Coating or Graphic Arts Operation) is not applicable to the surface coating operations because the source cannot comply with the fifteen (15) pounds per day VOC limitation. Therefore, the operating conditions contained in SSOA 063-10403-00046, issued January 12, 1999, are no longer applicable to this source.

D.4.6 Preventive Maintenance Plan [326 IAC 1-6-3]

A Preventive Maintenance Plan, in accordance with Section C - Preventive Maintenance Plan, of this permit, is required for these emission units and their control devices.

Compliance Determination Requirements

D.4.7 Particulate Matter (PM)

The dry filters for PM control shall be in operation at all times when the spray booth (identified as PB-1) is in operation.

D.4.8 Testing Requirements [326 IAC 2-1.1-11]

The Permittee is not required to test these emission units by this permit. However, IDEM may require compliance testing when necessary to determine if the emissions from these units are in compliance. If testing is required by IDEM, compliance with the VOC and PM limits specified in Conditions D.4.1 and D.4.4 shall be determined by a performance test conducted in accordance with Section C - Performance Testing.

D.4.9 Volatile Organic Compounds (VOC)

Compliance with the VOC content and usage limitation contained in Condition D.4.1, D.3.2 and D.3.3 shall be determined pursuant to 326 IAC 8-1-4(a)(3) and 326 IAC 8-1-2(a) using formulation data supplied by the coating manufacturer. IDEM, OAQ, reserves the authority

to determine compliance using Method 24 in conjunction with the analytical procedures specified in 326 IAC 8-1-4.

~~D.4.10 VOC Emissions~~

~~Compliance with Condition D.4.1 shall be demonstrated within 30 days of the end of each month based on the total volatile organic compound usage for the most recent twelve (12) month period.~~

Compliance Monitoring Requirements [326 IAC 2-5.1-3(e)(2)] [326 IAC 2-6.1-5(a)(2)]

D.4.~~11~~10 Monitoring

(a) Daily inspections shall be performed to verify the placement, integrity and particle loading of the filters. To monitor the performance of the dry filters, weekly observations shall be made of the overspray from the spray booth stack while one or more of the booths are in operation. The Compliance Response Plan shall be followed whenever a condition exists which should result in a response step. Failure to take response steps in accordance with Section C - Compliance Monitoring Plan - Failure to Take Response Steps, shall be considered a violation of this permit.

(b) Monthly inspections shall be performed of the coating emissions from the stack and the presence of overspray on the rooftops and the nearby ground. The Compliance Response Plan for this unit shall contain troubleshooting contingency and response steps for when a noticeable change in overspray emission, or evidence of overspray emission is observed. The Compliance Response Plan shall be followed whenever a condition exists which should result in a response step. Failure to take response steps in accordance with Section C - Compliance Monitoring Plan - Failure to Take Response Steps, shall be considered a violation of this permit.

(c) Additional inspections and preventive measures shall be performed as prescribed in the Preventive Maintenance Plan.

Record Keeping and Reporting Requirements [326 IAC 2-5.1-3(e)(2)] [326 IAC 2-6.1-5(a)(2)]

D.4.~~12~~11 Record Keeping Requirements

(a) To document compliance with Conditions D.4.1, D.4.2 and D.4.3, the Permittee shall maintain records in accordance with (1) ~~through (3)~~ **through (6) below. Records maintained for (1) through** ~~(6)~~**(3) shall be taken monthly and shall be complete and sufficient to establish compliance with the VOC and HAP usage limits and/or the VOC emission limits established in Conditions D.4.1, D.4.2, and D.4.3:**

(1) The amount and VOC and HAP content of each coating material and solvent used. Records shall include purchase orders, invoices, and material safety data sheets (MSDS) necessary to verify the type and amount used. Solvent usage records shall differentiate between those added to coatings (thinners) and those used as cleanup solvents;

(2) A log of the dates of use for the coatings, thinners and cleanup solvents;~~;~~ and

~~(3) The cleanup solvent usage for each month; and~~

~~(4) The total VOC and HAP usage for each month; and~~

~~(5)~~**(3) The weight of VOCs and HAPs emitted for each compliance period.**

(b) To document compliance with Condition D.4.~~11~~10, the Permittee shall maintain a log of weekly overspray observations, daily and monthly inspections, and those additional inspections prescribed by the Preventive Maintenance Plan.

(c) All records shall be maintained in accordance with Section C - General Record Keeping Requirements, of this permit.

Conclusion

The construction and operation of these new emission units shall be subject to the conditions of the attached proposed Significant Permit Revision 063-13938-00046.

INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF AIR QUALITY
COMPLIANCE DATA SECTION

MINOR SOURCE OPERATING PERMIT
ANNUAL NOTIFICATION

This form should be used to comply with the notification requirements under 326 IAC 2-6.1-5(a)(5).

Company Name:	**Arvin Meritor - QRI**
Address:	**849 Whitaker Road**
City:	**Plainfield, Indiana 46168**
Phone #:	
MSOP #:	**063-11118-00046**

I hereby certify that Arvin Meritor - QRI is 9 **still in operation.**
9 **no longer in operation.**

I hereby certify that Arvin Meritor - QRI is 9 **in compliance with the requirements of MSOP 063-11118-00046.**
9 **not in compliance with the requirements of MSOP 063-11118-00046.**

Authorized Individual (typed):
Title:
Signature:
Date:

If there are any conditions or requirements for which the source is not in compliance, provide a narrative description of how the source did or will achieve compliance and the date compliance was, or will be achieved.

Noncompliance:

Appendix A: Emissions Calculations
Natural Gas Combustion Only
MM BTU/HR <100
Forced-Air Oven (PL-121B)

Company Name: **Arvin Meritor - QRI**
Address City IN Zip: **849 Whitaker Road, Plainfield, IN 46168**
CP: **063-13938-00046**
Plt ID: **00046**
Reviewer: ERG/AB
Date: 03/1/01

Heat Input Capacity MMBtu/hr	Potential Throughput MMCF/yr
0.5	4.4

	Pollutant					
	PM*	PM10*	SO2	NOx	VOC	CO
Emission Factor in lb/MMCF	7.6	7.6	0.6	100.0 **see below	5.5	84.0
Potential Emission in tons/yr	0.017	0.017	0.001	0.219	0.012	0.184

*PM emission factor is filterable and condensable PM.

**Emission Factors for NOx: Uncontrolled = 100, Low NOx Burner = 50, Low NOx Burners/Flue gas recirculation = 32

Methodology

All emission factors are based on normal firing.
MMBtu = 1,000,000 Btu
MMCF = 1,000,000 Cubic Feet of Gas

Potential Throughput (MMCF) = Heat Input Capacity (MMBtu/hr) x 8,760 hrs/yr x 1 MMCF/1,000 MMBtu
Emission Factors are from AP 42, Chapter 1.4, Tables 1.4-1, 1.4-2, 1.4-3, SCC #1-02-006-02, 1-01-006-02, 1-03-006-02, and 1-03-006-03 (SUPPLEMENT D 3/98)
Emission (tons/yr) = Throughput (MMCF/yr) x Emission Factor (lb/MMCF)/2,000 lb/ton
Note: Check the applicable rules and test methods for PM and PM10 when using the above emission factors to confirm that the correct factor is used (i.e., condensable included/not included).
See page 2 for HAPs emissions calculations.

Appendix A: Emissions Calculations
Natural Gas Combustion Only
MM BTU/HR <100
Forced-Air Oven (PL-121B)
HAPs Emissions

Company Name: **Arvin Meritor - QRI**
Address City IN Zip: **849 Whitaker Road, Plainfield, IN 46168**
CP: **063-13938-00046**
Plt ID: **00046**
Reviewer: ERG/AB
Date: 03/1/01

HAPs - Organics

	Benzene	Dichlorobenzene	Formaldehyde	Hexane	Toluene
Emission Factor in lb/MMcf	2.1E-03	1.2E-03	7.5E-02	1.8E+00	3.4E-03
Potential Emission in tons/yr	4.599E-06	2.628E-06	1.643E-04	3.942E-03	7.446E-06

HAPs - Metals

	Lead	Cadmium	Chromium	Manganese	Nickel
Emission Factor in lb/MMcf	5.0E-04	1.1E-03	1.4E-03	3.8E-04	2.1E-03
Potential Emission in tons/yr	1.095E-06	2.409E-06	3.066E-06	8.322E-07	4.599E-06

Methodology is the same as page 1.

The five highest organic and metal HAPs emission factors are provided above.
Additional HAPs emission factors are available in AP-42, Chapter 1.4.

Appendix A: Emissions Calculations
Natural Gas Combustion Only
MM BTU/HR <100
Washer Heaters (PL-122)

Company Name: **Arvin Meritor - QRI**
Address City IN Zip: **849 Whitaker Road, Plainfield, IN 46168**
CP: **063-13938-00046**
Plt ID: **00046**
Reviewer: ERG/AB
Date: 03/1/01

Heat Input Capacity MMBtu/hr	Potential Throughput MMCF/yr
0.9	7.9

	Pollutant					
	PM*	PM10*	SO2	NOx	VOC	CO
Emission Factor in lb/MMCF	7.6	7.6	0.6	100.0 **see below	5.5	84.0
Potential Emission in tons/yr	0.030	0.030	0.002	0.394	0.022	0.331

*PM emission factor is filterable and condensable PM.

**Emission Factors for NOx: Uncontrolled = 100, Low NOx Burner = 50, Low NOx Burners/Flue gas recirculation = 32

Methodology

All emission factors are based on normal firing.
MMBtu = 1,000,000 Btu
MMCF = 1,000,000 Cubic Feet of Gas

Potential Throughput (MMCF) = Heat Input Capacity (MMBtu/hr) x 8,760 hrs/yr x 1 MMCF/1,000 MMBtu
Emission Factors are from AP 42, Chapter 1.4, Tables 1.4-1, 1.4-2, 1.4-3, SCC #1-02-006-02, 1-01-006-02, 1-03-006-02, and 1-03-006-03 (SUPPLEMENT D 3/98)
Emission (tons/yr) = Throughput (MMCF/yr) x Emission Factor (lb/MMCF)/2,000 lb/ton
Note: Check the applicable rules and test methods for PM and PM10 when using the above emission factors to confirm that the correct factor is used (i.e., condensable included/not included).
See page 2 for HAPs emissions calculations.

Appendix A: Emissions Calculations
Natural Gas Combustion Only
MM BTU/HR <100
Washer Heaters (PL-122)
HAPs Emissions

Company Name: **Arvin Meritor - QRI**
Address City IN Zip: **849 Whitaker Road, Plainfield, IN 46168**
CP: **063-13938-00046**
Plt ID: **00046**
Reviewer: ERG/AB
Date: 03/1/01

HAPs - Organics

	Benzene	Dichlorobenzene	Formaldehyde	Hexane	Toluene
Emission Factor in lb/MMcf	2.1E-03	1.2E-03	7.5E-02	1.8E+00	3.4E-03
Potential Emission in tons/yr	8.278E-06	4.730E-06	2.957E-04	7.096E-03	1.340E-05

HAPs - Metals

	Lead	Cadmium	Chromium	Manganese	Nickel
Emission Factor in lb/MMcf	5.0E-04	1.1E-03	1.4E-03	3.8E-04	2.1E-03
Potential Emission in tons/yr	1.971E-06	4.336E-06	5.519E-06	1.498E-06	8.278E-06

Methodology is the same as page 1.

The five highest organic and metal HAPs emission factors are provided above.
Additional HAPs emission factors are available in AP-42, Chapter 1.4.

Appendix A: Emissions Calculations
VOC and Particulate
From Surface Coating Operations
Dip Coating Operations

Company Name: **Arvin Meritor - QRI**
Address City IN Zip: **849 Whitaker Road, Plainfield, IN 46168**
CP: **063-13938-00046**
Plt ID: **00046**
Reviewer: ERG/AB
Date: 03/1/01

Material	Density (Lb/Gal)	Weight % Volatile (H20 & Organics)	Weight % Water	Weight % Organics	Volume % Water	Volume % Non-Volatiles (solids)	Gal of Mat. (gal/unit)	Maximum (unit/hour)	Pounds VOC per gallon of coating less water	Pounds VOC per gallon of coating	Potential VOC pounds per hour	Potential VOC pounds per day	Potential VOC tons per year	Particulate Potential (ton/yr)	lb VOC/gal solids	Transfer Efficiency
Y-M Black WR Dip Enamel*	9.1	65.50%	49.4%	16.1%	54.4%	26.40%	0.00563	750.000	3.21	1.47	6.19	148.47	27.10	0.00	5.55	100%

Potential Emissions **6.19** **148.47** **27.10** **0.00**

* Enamel used for coating metal parts (VOC content of coating (as applied) is 3.2 lb/gal).
** Paint is applied in a dip coating process.

METHODOLOGY

Pounds of VOC per Gallon Coating less Water = (Density (lb/gal) * Weight % Organics) / (1-Volume % water)
Pounds of VOC per Gallon Coating = (Density (lb/gal) * Weight % Organics)
Potential VOC Pounds per Hour = Pounds of VOC per Gallon coating (lb/gal) * Gal of Material (gal/unit) * Maximum (units/hr)
Potential VOC Pounds per Day = Pounds of VOC per Gallon coating (lb/gal) * Gal of Material (gal/unit) * Maximum (units/hr) * (24 hr/day)
Potential VOC Tons per Year = Pounds of VOC per Gallon coating (lb/gal) * Gal of Material (gal/unit) * Maximum (units/hr) * (8760 hr/yr) * (1 ton/2000 lbs)
Particulate Potential Tons per Year = (units/hour) * (gal/unit) * (lbs/gal) * (1- Weight % Volatiles) * (1-Transfer efficiency) *(8760 hrs/yr) *(1 ton/2000 lbs)
Pounds VOC per Gallon of Solids = (Density (lbs/gal) * Weight % organics) / (Volume % solids)
Total = Worst Coating + Sum of all solvents used

Appendix A: Emissions Calculations
VOC and Particulate
From Surface Coating Operations
Spray Booth Operations

Company Name: **Arvin Meritor - QRI**
Address City IN Zip: **849 Whitaker Road, Plainfield, IN 46168**
CP: **063-13938-00046**
Plt ID: **00046**
Reviewer: ERG/AB
Date: 06/14/01

Material	Density (Lb/Gal)	Weight % Volatile (H20 & Organics)	Weight % Water	Weight % Organics	Volume % Water	Volume % Non-Volatiles (solids)	Gal of Mat. (gal/unit)	Maximum (unit/hour)	Pounds VOC per gallon of coating less water	Pounds VOC per gallon of coating	Potential VOC pounds per hour	Potential VOC pounds per day	Potential VOC tons per year	Particulate Potential (ton/yr)	lb VOC/gal solids	Transfer Efficiency
Y-M WP-2618 Spray Primer**	10.1	50.00%	29.7%	20.3%	35.8%	36.00%	0.02500	40.000	3.18	2.04	2.04	49.01	8.94	5.51	5.67	75%
Potential Emissions											**2.04**	**49.01**	**8.94**	**5.51**		

** Enamel used for coating metal parts (VOC content of coating (as applied) is 3.2 lb/gal).

METHODOLOGY

Pounds of VOC per Gallon Coating less Water = (Density (lb/gal) * Weight % Organics) / (1-Volume % water)
Pounds of VOC per Gallon Coating = (Density (lb/gal) * Weight % Organics)
Potential VOC Pounds per Hour = Pounds of VOC per Gallon coating (lb/gal) * Gal of Material (gal/unit) * Maximum (units/hr)
Potential VOC Pounds per Day = Pounds of VOC per Gallon coating (lb/gal) * Gal of Material (gal/unit) * Maximum (units/hr) * (24 hr/day)
Potential VOC Tons per Year = Pounds of VOC per Gallon coating (lb/gal) * Gal of Material (gal/unit) * Maximum (units/hr) * (8760 hr/yr) * (1 ton/2000 lbs)
Particulate Potential Tons per Year = (units/hour) * (gal/unit) * (lbs/gal) * (1- Weight % Volatiles) * (1-Transfer efficiency) *(8760 hrs/yr) *(1 ton/2000 lbs)
Pounds VOC per Gallon of Solids = (Density (lbs/gal) * Weight % organics) / (Volume % solids)
Total = Worst Coating + Sum of all solvents used

Appendix A: Emissions Calculations
Natural Gas Combustion Only
MM BTU/HR <100
Bake-off Oven

Company Name: **Arvin Meritor - QRI**
Address City IN Zip: **849 Whitaker Road, Plainfield, IN 46168**
CP: **063-13938-00046**
Plt ID: **00046**
Reviewer: ERG/AB
Date: 06/14/01

Heat Input Capacity MMBtu/hr	Potential Throughput MMCF/yr
0.5	4.4

	Pollutant					
	PM*	PM10*	SO2	NOx	VOC	CO
Emission Factor in lb/MMCF	7.6	7.6	0.6	100.0 **see below	5.5	84.0
Potential Emission in tons/yr	0.017	0.017	0.001	0.219	0.012	0.184

*PM emission factor is filterable and condensable PM.
**Emission Factors for NOx: Uncontrolled = 100, Low NOx Burner = 50, Low NOx Burners/Flue gas recirculation = 32

Methodology

All emission factors are based on normal firing.
MMBtu = 1,000,000 Btu
MMCF = 1,000,000 Cubic Feet of Gas

Potential Throughput (MMCF) = Heat Input Capacity (MMBtu/hr) x 8,760 hrs/yr x 1 MMCF/1,000 MMBtu
Emission Factors are from AP 42, Chapter 1.4, Tables 1.4-1, 1.4-2, 1.4-3, SCC #1-02-006-02, 1-01-006-02, 1-03-006-02, and 1-03-006-03 (SUPPLEMENT D 3/98)
Emission (tons/yr) = Throughput (MMCF/yr) x Emission Factor (lb/MMCF)/2,000 lb/ton
Note: Check the applicable rules and test methods for PM and PM10 when using the above emission factors to confirm that the correct factor is used (i.e., condensable included/not included).
See page 2 for HAPs emissions calculations.

Appendix A: Emissions Calculations
Natural Gas Combustion Only
MM BTU/HR <100
Bake-off Oven
HAPs Emissions

Company Name: **Arvin Meritor - QRI**
Address City IN Zip: **849 Whitaker Road, Plainfield, IN 46168**
CP: **063-13938-00046**
Plt ID: **00046**
Reviewer: ERG/AB
Date: 06/14/01

HAPs - Organics

	Benzene	Dichlorobenzene	Formaldehyde	Hexane	Toluene
Emission Factor in lb/MMcf	2.1E-03	1.2E-03	7.5E-02	1.8E+00	3.4E-03
Potential Emission in tons/yr	4.599E-06	2.628E-06	1.643E-04	3.942E-03	7.446E-06

HAPs - Metals

	Lead	Cadmium	Chromium	Manganese	Nickel
Emission Factor in lb/MMcf	5.0E-04	1.1E-03	1.4E-03	3.8E-04	2.1E-03
Potential Emission in tons/yr	1.095E-06	2.409E-06	3.066E-06	8.322E-07	4.599E-06

Methodology is the same as page 1.

The five highest organic and metal HAPs emission factors are provided above.
Additional HAPs emission factors are available in AP-42, Chapter 1.4.

Appendix A: Emissions Calculations
Degreasing Operations

Company Name: **Arvin Meritor - QRI**
Address City IN Zip: **849 Whitaker Road, Plainfield, IN 46168**
CP: **063-13938-00046**
Plt ID: **00046**
Reviewer: ERG/AB
Date: 06/14/01

Type of Operation	VOC content of Solvent (lbs/gal)	Maximum Amount of Solvent Used** (gal/year)	PTE for VOC (tons/year)
Handwipe	7	2,000.00	7.00
Cold Cleaner Degreasers Units	6.5	1,080.00	3.51
Total			10.51

Methodology :
** Based on information provided by the source. Estimate is for 8760 hours of operation.
PTE = VOC Content (lbs/gal) * Max. Amount of Solvent used (gal/year) * 1 ton/2000 lbs

Appendix A: Emissions Calculations
Tumblast Finishing
(PL- 101 and PL-104)

Company Name: **Arvin Meritor - QRI**
Address City IN Zip: **849 Whitaker Road, Plainfield, IN 46168**
CP: **063-13938-00046**
Plt ID: **00046**
Reviewer: ERG/AB
Date: 06/14/01

Unit	Unit I.D.	Air Flow (dscfm)	Grain Loading at Inlet (gr/dscfm)	PTE (lbs/hr)	PTE (tons/yr)
Sand Blaster	PL-104	775	0.0208	0.14	0.61
Spin Blaster	PL-101	1500	0.015	0.19	0.84
Total					1.45

Methodology:

PTE (tons/yr) = Air Flow (dscfm) * Grain loading (gr/dscfm) * 1lb/7000gr * 8760 hrs * 1 ton/2000lbs.

Appendix A: Emissions Calculations
Natural Gas Combustion Only
MM BTU/HR <100
Aqueous Washers PL-105, PL-106, PL-107, PL-108, and PL-109

Company Name: **Arvin Meritor - QRI**
Address City IN Zip: **849 Whitaker Road, Plainfield, IN 46168**
CP: **063-13938-00046**
Plt ID: **00046**
Reviewer: ERG/AB
Date: 03/1/01

Heat Input Capacity MMBtu/hr	Potential Throughput MMCF/yr
2.4	21.0

	Pollutant					
	PM*	PM10*	SO2	NOx	VOC	CO
Emission Factor in lb/MMCF	7.6	7.6	0.6	100.0 **see below	5.5	84.0
Potential Emission in tons/yr	0.080	0.080	0.006	1.051	0.058	0.883

*PM emission factor is filterable and condensable PM.

**Emission Factors for NOx: Uncontrolled = 100, Low NOx Burner = 50, Low NOx Burners/Flue gas recirculation = 32

Methodology

All emission factors are based on normal firing.
MMBtu = 1,000,000 Btu
MMCF = 1,000,000 Cubic Feet of Gas

Potential Throughput (MMCF) = Heat Input Capacity (MMBtu/hr) x 8,760 hrs/yr x 1 MMCF/1,000 MMBtu
Emission Factors are from AP 42, Chapter 1.4, Tables 1.4-1, 1.4-2, 1.4-3, SCC #1-02-006-02, 1-01-006-02, 1-03-006-02, and 1-03-006-03 (SUPPLEMENT D 3/98)
Emission (tons/yr) = Throughput (MMCF/yr) x Emission Factor (lb/MMCF)/2,000 lb/ton
Note: Check the applicable rules and test methods for PM and PM10 when using the above emission factors to confirm that the correct factor is used (i.e., condensable included/not included).
See page 2 for HAPs emissions calculations.

Appendix A: Emissions Calculations
Natural Gas Combustion Only
MM BTU/HR <100
Aqueous Washers PL-105, PL-106, PL-107, PL-108, and PL-109
HAPs Emissions

Company Name: **Arvin Meritor - QRI**
Address City IN Zip: **849 Whitaker Road, Plainfield, IN 46168**
CP: **063-13938-00046**
Plt ID: **00046**
Reviewer: ERG/AB
Date: 03/1/01

HAPs - Organics

	Benzene	Dichlorobenzene	Formaldehyde	Hexane	Toluene
Emission Factor in lb/MMcf	2.1E-03	1.2E-03	7.5E-02	1.8E+00	3.4E-03
Potential Emission in tons/yr	2.208E-05	1.261E-05	7.884E-04	1.892E-02	3.574E-05

HAPs - Metals

	Lead	Cadmium	Chromium	Manganese	Nickel
Emission Factor in lb/MMcf	5.0E-04	1.1E-03	1.4E-03	3.8E-04	2.1E-03
Potential Emission in tons/yr	5.256E-06	1.156E-05	1.472E-05	3.995E-06	2.208E-05

Methodology is the same as page 1.

The five highest organic and metal HAPs emission factors are provided above.
Additional HAPs emission factors are available in AP-42, Chapter 1.4.